

The **CHEMIST AND DRUGGIST**

For Retailer, Wholesaler and Manufacturer

JULY 29 1961

New best-sellers in glamorous, givable

White Fire

Large scale full-colour advertising throughout the year in leading Women's Journals means that your customers know White Fire—and want it. Demand will be heavy this Christmas. Display the complete range of these lovely Gift Sets and take full advantage.

Grossmith





FOR INDIGESTION · GASTRIC HYPERACIDITY · LIVER AND
BILE DUCTS DISEASES · CHRONIC CONSTIPATION · CHRONIC
INTESTINAL CATARRH OR INFLAMMATION OF URINARY PASSAGES

ask for **GENUINE NATURAL CARLSBAD SPRUDEL SALT**

*All enquiries to Miller of Golden Square, Ltd., 13 Golden Square, London, W.1
Telephone: GERRard 6533, 5100*

Literature available upon request.

PRAHA · CZECHOSLOVAKIA

Cable address: Chemapol Praha



CHEMAPOL

Sole Exporter

DC(B)L

PRICE REDUCTIONS

— With effect from Monday, 31st. July, 1961 the trade prices of —
the following preparations are reduced to the levels given below :

NEW TRADE PRICE

'DISTAQUAINE' V and V-K tablets	60 mg.	bottle of 30	5s. 9d.
		" " 200	31s. 6d.
		" " 1000	149s. 0d.
	125 mg.	foil pack of 12	4s. 10d.
		bottle of 100	32s. 10d.
		" " 500	155s. 3d.
		" " 1000	302s. 6d.
	250 mg.	foil pack of 12	8s. 10d.
		bottle of 100	64s. 9d.
		" " 500	308s. 9d.
		" " 1000	600s. 0d.
'DISTAQUAINE' V SULPHA tablets		bottle of 30	8s. 0d.
		" " 200	45s. 8d.
		" " 1000	207s. 6d.
'DISTAQUAINE' V ELIXIR		60 mg. 2 fl.oz.	4s. 6d.
		ELIXIR FORTE 240 mg. 1½ fl.oz.	10s. 9d.
'DISTAQUAINE' V-K SUSPENSION		125 mg. 2 fl.oz.	5s. 9d.
PENICILLIN V POTASSIUM SUSPENSION		60 mg. 2 fl.oz.	3s. 5d.
'DISTAVAL' tablets	25 mg.	tube of 24	2s. 6d. (No change)
		bottle of 100	7s. 8d.
		" " 500	34s. 0d.
		" " 1000	66s. 0d.
'DISTAVAL' FORTE tablets	100 mg.	tube of 12	3s. 4d.
		bottle of 100	20s. 0d.
		" " 500	95s. 0d.
		" " 1000	181s. 6d.
'VALGIS' tablets		tube of 12	2s. 6d.
		container of 100	15s. 0d.

Special Claim Forms have been mailed to the Trade and should be returned by Monday, 14th. August, 1961.

DC(B)L

THE DISTILLERS COMPANY
(Biochemicals) LIMITED

Broadway House, The Broadway, Wimbledon, London, S.W.19. Telephone: LIBerty 6600

PPH1761

CHEMISTS SHARE IN DETTOL'S SUCCESS . . .

BIG SUMMER BONUS OFFER *



Years of medical approval and public confidence are reflected in the continuous rise in the sales of Dettol. This year, to coincide with the high sales of summer and the biggest summer advertising campaign ever launched for Dettol, there is a special bonus offer.

Buy now and you can have twelve bottles of Dettol for the price of eleven on a minimum quantity of 3 dozen 'C' size or 1½ dozen 'B' size (or a combination of both). On 3 dozen 'B' size you make, with the bonus, a total profit of 1/6½ per bottle. On the 'C' size your profit, with the bonus, is 11d. per bottle. This

is a quite exceptional offer with a strong-selling product of the highest reputation.

Good display and the extra-big stocks you will need must mean outstanding profits to you. Remember that the highly profitable large sizes are now selling particularly well.

NEW!



HOW YOU CAN PROFIT FROM 2 ADVERTISING CAMPAIGNS AT ONCE

RIBENA PASTILLES are the pastille version of Ribena, the famous blackcurrant Vitamin C health drink.

They have the same true, fresh blackcurrant taste—and they contain 60mg. Vitamin C per ounce. Four pastilles provide an adult's daily requirement of Vitamin C.

They sell at 1/9d a carton and come to you practically ready-sold. People will buy them because they carry a famous name—and because they're good in themselves! Ribena Pastilles have already proved their worth. Tested last year in Midlands TV area, they swiftly became market leaders.

AND YOU BENEFIT FROM TWO ADVERTISING CAMPAIGNS

1 **RIBENA PASTILLES ADVERTISING**

runs in five national newspapers, two leading women's magazines, from October to March, and totals 1,568 column inches reaching 87% of the adult population.

2 **RIBENA** advertising runs on TV, high frequency, all stations, September to March. This

will also boost your sales of **RIBENA PASTILLES**—especially when you give them prominent display! (Material available free.)

STOCK UP WITH *Ribena* PASTILLES NOW
ASK OUR REPRESENTATIVE FOR DETAILS OF STOCKING-UP DEAL

Distributors: **HAROLD F. RITCHIE LTD.**, Beecham Foods Ltd., Beecham House, Great West Road, Brentford, Middlesex

'LITTLE WILLIE' ON THE MARCH AGAIN!

for "CARNATION"
the most popular corn remover

On 10ft. high posters in the big cities and towns as well as at certain popular seaside resorts this summer, our famous tramp will be featuring CARNATION CORN CAPS and advertising them as "FROM CHEMISTS ONLY."

All you have to do is to ensure you have him on display all the time and there will be regular easy sales!

CARNATION CORN CAPS—A "BEST SELLER"

Retail 1/3 Packet (including P.T.)

Trade 8/3 Doz. + 2/1 Tax. Generous bonus on quantities.

Also Recommend: CARNATION CALLOUS CAPS—8/3 + 2/1 TAX



A PRODUCT OF **Cuxson, Gerrards & Co. Ltd.** OLDBURY, BIRMINGHAM

Telephone: BR0adwell 1355 (5 lines)

QUEEN

Non Irritant
BEAUTY PRODUCTS
THE SAFETY FACTOR IN
EVERY DAY MAKE-UP

Queen beauty products form a complete range of toilet and beauty preparations, including lipsticks, specially for those women who have sensitive skins. **RECOMMENDED BY THE MEDICAL PROFESSION.**



New terms give 33 1/3% discount
Obtainable from Messrs Sangors Ltd., and Allied Companies, through your Wholesaler, or direct from
BOUTALLS CHEMISTS LTD.,
60 Lambs Conduit St., London, W.C.1

NATISEDINE

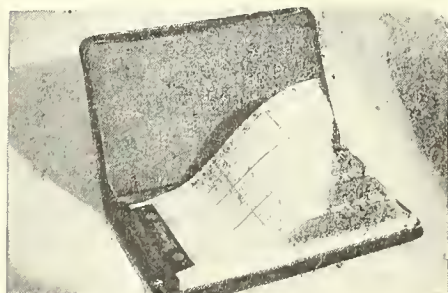
A new **GENERAL SEDATIVE** with
elective cardiac action

Each tablet contains:
Phenylethylbarbiturate of Quinidine: 0.10 gm.
A new, crystalline salt of high purity, stable and with definite physical characteristics.

Bottle of 20 Retail price 8/9
Bottles of 100 (Dispensing Packs)

LABORATORY NATIVELLE LTD
74-77 White Lion Street, LONDON, N.1
18-19 Temple Bar, DUBLIN

Other lines: DIGITALINE NATIVELLE—OUABAIN ARNAUD
IODHEMA—NATIROSE

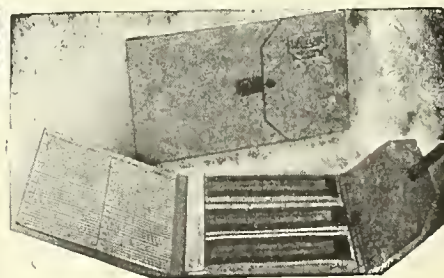


35 mm. Neg. Flexible Zip Binder
Heavy Morocco Grained Leather Cloth Binding with zip-fastener all round, giving protection and loose-leaf capacity for 12 units. Reference Index Card, and one unit 32/6.

Minidex NEGATIVE LIBRARIES



Minidex "120" Negative Album
Complete with 120 negative envelopes and Index.
Two sizes: 2 1/2" x 2 1/2" 7/-, 2 1/2" x 3 1/2" 7/6



Leica Negative Libraries
No. 72 (432 exps. in strips of 6) } each 12/6
No. 108 (432 exps. in strips of 4) }

Minidex "120" Storage Units
Mod. IV 2 1/2" x 3 1/2" ... 8 negs. } 8/- dozen
Mod. V 2 1/2" x 2 1/2" ... 12 negs. }

Sole Distributors **JAMES BLACKWOOD & CO., LTD.,** 17 CREECHURCH LANE, LONDON, E.C.3. 'PHONE: AVE. 4434 (EXT. 2)

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Lilly

PENICILLIN V PRODUCTS PRICE REDUCTION

Eli Lilly and Company Limited have pleasure in announcing that their Penicillin V Products will be reduced in price with effect from the 31st. July, 1961.

Within the next few days, all Retail Pharmacists in the United Kingdom will be receiving a Rebate Claims Form together with a revised schedule of prices.

ELI LILLY AND COMPANY LIMITED
Basingstoke - - - England

ALLEN & HANBURY LTD

PRICE REVISIONS DUE TO 10% SURCHARGE ON PURCHASE TAX

PRODUCT AND PACK	Trade Price each Net	Revised Purchase Tax	New Retail Price Inc. P.T.
Bynin Amara 10 fl. oz.	3/3	11d.	5/5
2 L.	20/-	5/6	33/10
Capriton tube of 12	34/- doz.	9½d.	4/7
Euvalerol B. & M. 8 fl. oz.	4/7	1/3½	8/2
20 fl. oz.	10/6	2/10½	18/7½
2 L.	32/-	8/9½	56/9½
Isogel 200 g.	4/8	1/3½	7/9½
5 lb.	38/-	10/5½	60/11½
Lixen Elixir 2 fl. oz.	1/2	4d.	1/11½
4 fl. oz.	2/-	6½d.	3/4½
8 fl. oz.	3/6	11½d.	5/11
2 L.	25/-	6/10½	41/3½
Lysantol Pastilles 2 oz.	11/4 doz.	3/1½ doz.	1/8 ea.
Piriex 4 fl. oz.	2/6	8d.	4/5
2 L.	34/-	9/4	60/4
Superfatted Soap	7/4 doz.	2/- doz.	1/- ea.

The above prices were operative on all goods
despatched on or after Wednesday July 26, 1961

I.C.I. announces still further reductions in the prices of Penicillin V preparations

Operative from July 31, 1961

Penicillin, the first antibiotic, is still the most useful, the least toxic, and incredibly cheap. Now I.C.I. has again made new and substantial reductions in the price of the following well-known penicillin V preparations

PRODUCT	PACK	LIST EACH	TRADE PRICE
'Penavlon' V 125 mgm.	12's Tubes 100's Bottles 500's Bottles 1000's Bottles	7/3d 49/3d 232/10½d 453/9d	58/0d Dozen 394/0d Dozen 155/3d Each 302/6d Each
'Penavlon' V 250 mgm.	100's Bottles 500's Bottles 1000's Bottles	97/1½d 463/1½d 900/0d	64/9d Each 308/9d Each 600/0d Each
'Icipen' V 300 Tablets	12's Tubes 100's Bottles 500's Bottles	15/11d 116/6d 555/9d	127/4d Dozen 77/8d Each 370/6d Each
'Sulmezil' V Tablets	25's Bottles 100's Bottles 500's Bottles	10/7d 35/9d 161/6d	84/8d Dozen 286/0d Dozen 107/8d Each
'Icipen' V Syrup	30 ml. Bottles 60 ml. Bottles	6/4d 10/4d	50/8d Dozen 82/8d Dozen
'Sulmezil' V Suspension	2 fl. oz. Bottles	9/1½d	73/0d Dozen



Pioneers in Penicillin

IMPERIAL CHEMICAL INDUSTRIES LIMITED PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE
Ph.161/T

MANUFACTURING CHEMISTS



ZIM Dental Balm ZIM Pastilles

Two excellent preparations for the relief of infections of the mouth. Particularly indicated in the treatment of discomfort caused to tender gums when wearing new dentures or when old dentures have made the gums sore

*Attractive packs and showouters
Counter display material*

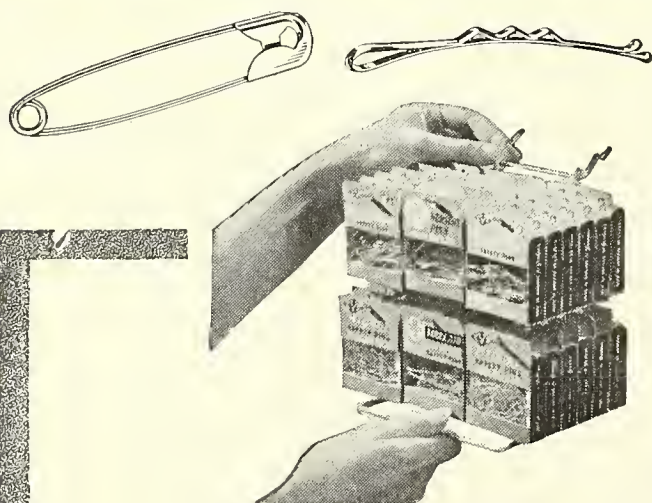
For further information and trade terms ask our representatives or write to our Head Office.

ARTHUR H. COX & CO. LTD. BRIGHTON. ENGLAND.

ESTABLISHED IN 1839

BIG Value for customers . . . profits for you!

— in displays the customers can't resist!

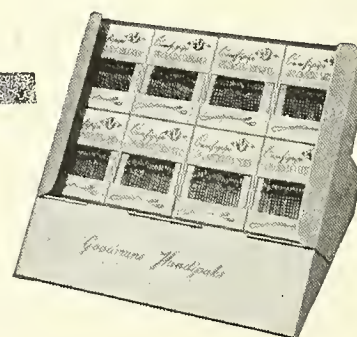


GOODMAN'S WINDOPACK

Pegboard or counter display

Unique swing-up clip hangs it instantly to pegboard without tilting—or stand it on your counter. For 3 DOZ. WINDOPACKS OF HAIRGRIPS OR SAFETY PINS

1/- RETAIL



GOODMAN'S HANDIPAK

Counter display

Quick "self-service" sales assured! For 2 or 3 DOZ. HANDIPAKS OF HAIRGRIPS

6d RETAIL

Order now and profit now! Ask for Windopacks and Handipaks!

Manufactured by **George Goodman Ltd., Birmingham 28**

Retail Price 2'6
Profit 10d on
best terms

Mimosept

A New Luxury in Sani-Protection

National launch in September

Mimosept

Softer, whiter and Polythene-packed

Mimosept

Greater absorbency—with D-5 deodorant

Mimosept

Send for details of Trade Terms, Special Sales Aids and Large Scale
Advertising Support to: DALMAS LTD., 215 CHARLES STREET, LEICESTER



the world's largest
manufacturer of aids
to hair beauty

Now *you* can sell the internationally best-selling hair preparations! Helene Curtis gives you the backing of an international sales, advertising and research organisation . . . and the *certainty* that the most popular products in the USA and Europe will be a sweeping sales success with your customers too!

*the world's first
vanishing hair spray!*

Entirely new! Go Gay conditions as it controls. Holds hair softly all day . . . leaves its magic . . . then *vanishes overnight!* Can't build up stiffness day after day.

Three formulas — for
Normal Hair (blue pack)
Dry Hair (pink pack) and
Oily Hair (yellow pack).

Helene Curtis is here with

GO
GAY

plus this exciting

consumer offer

FREE

REFILLABLE PURSE SPRAY

with every full-size Go Gay Spray
Another 'first' for Helene Curtis! Completely new, purse-size Aerosol spray of Go Gay, free with every pack. *Refills simply and quickly from the dual purpose full-size spray!*



Retail Price
12/6 inc. P.T.
Generous discounts

For full information write—Helene Curtis U.K. Distributors:

MISGO PRODUCTS LTD. 6 ALBEMARLE STREET, LONDON W.1.

specific relief...

plus the promise

of rest

IN

MIGRAINE

The two essentials of successful migraine therapy are brought together—in 'Valgraine'. Ergotamine to relieve the headache and associated symptoms—plus 'Distaval' (thalidomide) to bring the rest and relaxation so necessary for recovery. In short, 'Valgraine' is the *comprehensive* attack on migraine.

'VALGRAINE'

TRADE MARK

Each tablet contains:

'Distaval' Thalidomide 12.5 mg.
Ergotamine Tartrate B.P. 1.0 mg.

PACKS AND TRADE PRICES

Tube of 12 4s. 7d.
Bottle of 100 33s. 9d.

DC(BL)

THE DISTILLERS COMPANY (Biochemicals) LIMITED
Broadway House, The Broadway, Wimbledon, London, S.W.19
Telephone: LIBerty 6600

Owners of the trade marks 'Valgraine' and 'Distaval'
FPH 4160a

TANNIC

GALLIC

PYROGALLIC

All qualities

THE BRITISH DYEWOOD
CO LTD.
GLASGOW

THOVALINE

for:—

BEDSORES

BEDSORES can be prevented by applying **THOVALINE** before the trouble starts but if already in existence will help greatly in healing.

BURNS

BURNS Unique action. **THOVALINE** is self sterile it eliminates pain and is a rapid healer.

DERMATITIS

URINE DERMATITIS Excellent healing properties where rash exists and will prevent such trouble occurring if applied beforehand. Offensive odour is eliminated.

Supplies from your usual wholesale house:

ILON LABORATORIES

LORNE STREET • HAMILTON • LANARKSHIRE
Tel: HAMILTON 410

NEW REDUCED PRICES

CALCIPEN-V

PREPARATIONS

With effect from July 31st 1961 the price of Boots Penicillin V preparations (Calcipen V and penicillin V-K) will be reduced. The new basic N.H.S. prices are as follows:—

CALCIPEN V TABLETS

60 mg. tablets	bottle of 20	3/10d
	bottle of 100	16/4d
	bottle of 500	74/7½d
125 mg. tablets	bottle of 20	7/11d
	bottle of 100	32/10d
	bottle of 500	155/3d
250 mg. tablets	bottle of 12	8/10d
	bottle of 100	64/9d
	bottle of 500	308/9d

CALCIPEN V SULPHA TABLETS

60 mg. tablets	bottle of 20	5/8d
	bottle of 100	23/10d
	bottle of 500	107/8d

CALCIPEN V SUSPENSION

60 mg./5 ml.	60 ml. bottle	3/5d
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CALCIPEN V SUSPENSION '125'

125 mg./5 ml.	60 ml. bottle	5/9d
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CALCIPEN V SUSPENSION FORTE

250 mg./5 ml.	60 ml. bottle	11/2d
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CALCIPEN V SULPHA SUSPENSION

60 ml. bottle	4/11d
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PENICILLIN V-K TABLETS

125 mg. tablets	bottle of 100	32/10d
	bottle of 500	155/3d
250 mg. tablets	bottle of 100	64/9d
	bottle of 500	308/9d

Claim forms are being sent to all retail chemists

**WHOLESALE DIVISION, BOOTS PURE DRUG CO. LTD.,
STATION STREET, NOTTINGHAM**

TELEPHONE: NOTTINGHAM 56111

or 71 Fleet Street, London, E.C.4. Telephone: FLEet Street 0111



Stock and display **AMBRE SOLAIRE**

Europe's biggest selling Sun Tan Oil

Nation-wide Ambre Solaire Advertising
will reach millions every week
throughout the summer months

Dominating advertisements in

DAILY EXPRESS

DAILY TELEGRAPH

DAILY MAIL

SUNDAY TIMES



Ambre Solaire Aerosols
Packed in half dozens only,
6 Mousse, 6 Oil,
or 3 Oil and 3 Mousse

AMBRE SOLAIRE OIL AEROSOL

The famous Ambre Solaire Oil packed in an easy to use, long-lasting aerosol, gives the quickest, deepest tan without burning.

Trade Price 91/- per doz. aerosols, plus tax.

Retail price 15/- per aerosol.

AMBRE SOLAIRE MOUSSE AEROSOL

Ambre Solaire in an easy to spread mousse (cream) form, especially suitable for those with sensitive skins.

Trade price 91/- per doz. aerosols, plus tax.

Retail price 15/- per aerosol.



AMBRE SOLAIRE BOTTLE

The sun tan oil that gives the deepest, quickest tan without burning.

Trade price 44/- per doz. bottles, plus tax.

Retail price 7/3d per bottle.

This popular bottle . . . so familiar to the millions of British visitors to the Continent will again be a fast seller throughout the summer. Order Stock Now!

AMBRE SOLAIRE

Gives the quickest, deepest tan without burning

Manufactured and distributed by **GOLDEN LIMITED**, 7 Grosvenor Street, London W.1. Hyde Park 1671

Ambre Solaire Oil (bottle only) now available in Eire—Trade Enquiries to: **Lilmar Pharmaceuticals Limited** Santry, Dublin.

SUNDERLAND EDUCATION AUTHORITY SUNDERLAND TECHNICAL COLLEGE

PRINCIPAL:

D. A. Wrangham, M.Sc., Sen. Wh.Sch., D.I.C., M.I.Mech.E., A.C.G.I.

DEPARTMENT OF PHARMACY**HEAD OF DEPARTMENT:**

F. H. Oliver, B.Sc., B.Pharm., F.P.S.

Full-time Courses of study are held for :—

**THE EXAMINATIONS OF THE PHARMACEUTICAL SOCIETY
FINAL BACHELOR OF PHARMACY EXAMINATION OF
UNIVERSITY OF LONDON**

Facilities are available to prepare Graduates for further Degrees

Session commences October 2, 1961

Registration, Wednesday, September 6, 1961, 2.30—3.30 p.m.

Prospective students should make immediate application for prospectus and forms to the Registrar, The Technical College, Sunderland, Co. Durham.

W. Thompson, *Director of Education.*

SCHOOL OF PHARMACY UNIVERSITY OF LONDON

29/39, Brunswick Square, London, W.C.1

Tel. No. TERMINUS 7651

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PROFESSOR W. H. LINNELL, D.Sc., Ph.D., F.P.S., F.R.I.C.

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S. R. CURTIS, B.A., A.C.A.

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Pharmaceutics	Professor E. Shotton, B.Sc., Ph.D., F.P.S., F.R.I.C.
Pharmacognosy	Professor J. W. Fairbairn, B.Sc., Ph.D., F.P.S., F.R.I.C., F.L.S.
Pharmacology	Professor G. A. H. Buttle, O.B.E., M.A., M.R.C.S., L.R.C.P.

Courses of training for the B.Pharm.(Honours) Degree of the University of London, and facilities for post-graduate work in all subjects of the degree, are provided.

Particulars may be obtained on application to the Dean.

BRIGHTON TECHNICAL COLLEGE

Principal:

GORDON E. WATTS, C.B.E., M.A.,
Ph.D., B.Sc., F.R.I.C.

SCHOOL OF PHARMACY

*Officially approved by the Pharmaceutical Society and
the University of London.*

Head of School:

James C. Parkinson, Ph.D., B.Pharm. (London),
F.P.S., F.R.I.C.

Session Commences TUES., 19th SEPT., 1961

The following Full-time Day Courses are offered

ENTRANCE EXAMINATION DEGREE IN PHARMACY

(B.PHARM. UNIVERSITY OF LONDON)

Applications for places in the session commencing September 1962 must be made not later than January next. Excellent conditions of work and ample social and athletic activities characterise the school.

Student demonstratorships are offered to suitable students who desire to continue their studies after graduation.

During the session 1962-63 the School, together with the other departments of the College, will be completely rehoused in a new building with greatly improved teaching and research facilities.

For Prospectus apply to

**THE REGISTRAR,
Technical College, BRIGHTON**

or to the undersigned

W. G. Stone, Director of Education and Clerk to the Governors
54 Old Steine, Brighton

City of Leicester Education Committee

LEICESTER COLLEGE OF TECHNOLOGY & COMMERCE SCHOOL OF PHARMACY

Principal: R.E. Wood, M.Sc., F.Inst.P.

Head of School: C. Gunn, B.Pharm., F.P.S.

COURSES FOR

The Qualifying Examination of the Pharmaceutical Society. (New Regulations).
(Fully booked for Session 1961/62—Applications invited for Session 1962/63).

Bachelor of Pharmacy Degree of the University of London.

General Certificate of Education (Advanced Level) in Chemistry, Physics and Biology.

Opportunities for post-graduate research are offered to successful students.

Excellent opportunities for social and cultural activities are available together with extensive outdoor and indoor facilities for sports and athletics.

For prospectus and details of hostel and boarding accommodation apply to the Registrar, Leicester College of Technology and Commerce, Leicester.

EDINBURGH

HERIOT-WATT COLLEGE

(Incorporating the Royal Public Dispensary
School of Pharmacy)

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Principal of College:

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Head of Department:

H. H. CAMPBELL, A.H.W.C., B.Sc., F.R.I.C., F.P.S.

Entrance Examination

**Pharmaceutical Chemist Qualifying
Examination**

**Associateship of the Heriot-Watt
College in Applied Pharmacy**

Courses of lectures combined with laboratory and tutorial instruction are provided in the subjects of the examinations. The session extends from October to June.

Prospectus free on application.

CITY OF

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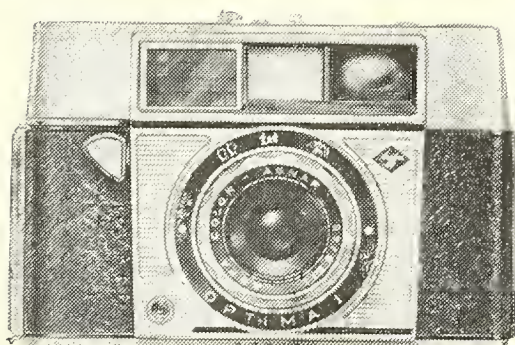
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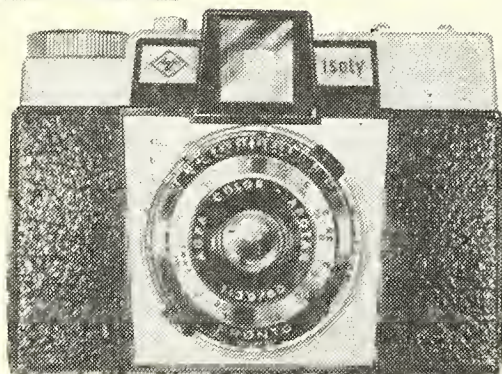


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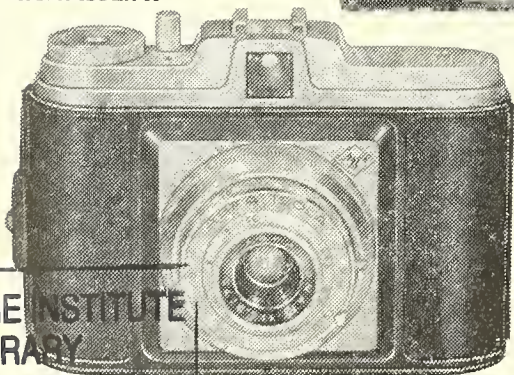


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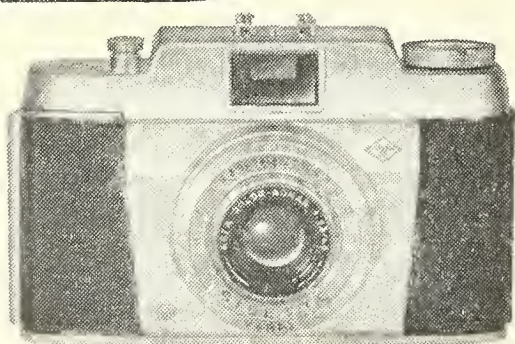
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ESTABLISHED 1859

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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 176

July 29, 1961

No. 4250

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Purchase Tax Surcharge

N.P.U. WRITES TO MANUFACTURERS

THE National Pharmaceutical Union has sent a letter, over the initials of its acting secretary, to all manufacturers and wholesalers in the trade, making representations about the way in which the 10 per cent. purchase tax surcharge should be applied to their products.

The letter states: You will no doubt be considering the effect of [the purchase-tax surcharge] on the retail prices of the products marketed by you. We desire to represent to you the paramount necessity, when so amending your prices, of ensuring that the increases cover fully the increased tax payable by the retailer, and that in all cases fractions of a penny should be rounded upwards. Although in some cases the additional tax may appear small in amount as related to individual items, the cumulative effect of the tax, if not fully recoverable from the consumer, could have a noticeable effect upon the profits of retail chemists at a time when, with continually increasing overheads, increased rather than diminished profits are an obvious necessity.

The Union's Executive is recommending its members not to pass on the surcharge to the public for a month from July 26.

Nielsen Drug Index

N.H.S. PAYMENTS AND TURNOVER

ALTHOUGH cash sales in retail pharmacies continue to increase, the higher volume of turnover "owes much to the increasing volume of N.H.S. payments," states the Nielsen Drug Index Retailer Report. The average weekly total turnover by retail chemists in Great Britain during March-April was £5,221,000, an increase of 15.1 per cent. over the corresponding period of last year. The average weekly cash sales in retail pharmacies were:—Multiples, £334; large independents £290; medium independents £151; small independents £79. Compared with the corresponding figures for 1960 the increased percentage changes were:—Multiples, 7.7; all independents, 8.0. It was estimated that the multiple pharmacies obtained 36.7 per cent. of the total turnover during the period whilst the large, medium and small independents obtained 26.6, 20.2 and 16.5 per cent. respectively. The average weekly National Health Service payments per shop were:—Large independents £197; multiples £163; medium independents £130; small independents £78. During March independent pharmacies dispensed 66.2 per cent.

of the National Health Service prescriptions (an average of 1,094 per shop per month), whilst the multiple pharmacies dispensed 33.8 per cent. (an average of 1,702 per shop per month). National Health Service payments amounted to 31.9 per cent. of the total turnover in multiple pharmacies and 42.0 per cent. in independents.

Tariff Amendments

DOCTOR'S INITIALS MAY BE NEEDED

FROM August 1 the following tablets have been added to Part 5A of the Drug Tariff at the basic prices shown and deleted from Part 5B:—

Tab. prednisolone, B.P.

1-mgm. 5s. 6d. per 100

5-mgm. 18s. 0d. per 100

Tab. prednisone, B.P.

1-mgm. 5s. 6d. per 100

5-mgm. 18s. 0d. per 100

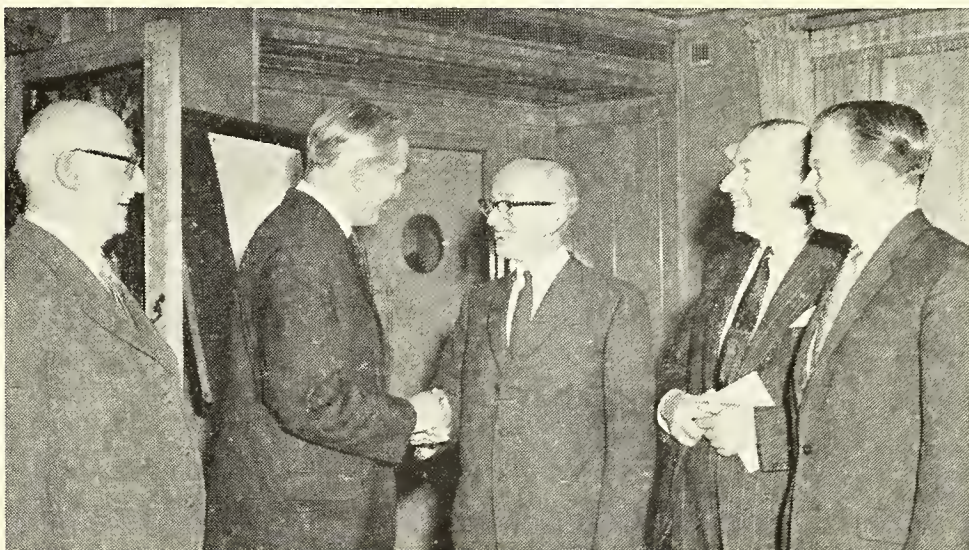
Prescriptions ordering those tablets by their official title from the date of their inclusion in Part 5A of the Tariff will be paid for at the Tariff basic rate. En-

dorsements indicating that a proprietary brand has been supplied will not be accepted by the pricing bureau without the initials of the doctor.

Cephalosporin Dispute

DECISION STILL AWAITED

AFTER a two-day hearing at the Patent Office, London, on July 21 and 23, the dispute over the distribution of benefits from the patent rights for the penicillin-type antibiotic cephalosporin is still unsettled. The dispute involves a team of seven research workers—four from Sir William Dunn School of Pathology, Oxford University and three from the Antibiotics Research Station, Cleveland, Somerset; all have been named as co-inventors of a process evolved during 1949 for producing cephalosporin N (*chemically*: 4 - amino - 4 - carboxybutyl penicillin) from the fungus *Cephalosporium*. Six of the workers, including Sir Howard Florey, had agreed previously to take equal shares of the benefits resulting from exploitation of the drug, and were also agreed on making use of the facilities of the National Research Development Corporation for its development. The seventh member was in dispute with that and had asked for a substantially larger share of the benefits. No agreement having been reached during the hearing, counsel representing Sir Howard Florey has asked for an order requiring the seventh member to sign the draft assignment to the N.R.D.C.



READY TO RECEIVE THE PRESS: Mr. Harold Hayman, M.P., and Sir Hugh Linstead, M.P., F.F.S. (a secretary of the Pharmaceutical Society) being welcomed by Messrs. George Graham (chairman of the Central National Health Service (Chemist Contractors) Committee), Albert Howells (chairman, National Pharmaceutical Union) and J. Wright (secretary, Central N.H.S. Committee) at a function at which those spokesmen of the contractors explained to journalists the implications of the claim for a 2s. professional fee and other improvements in the rewards to contractors for their pharmaceutical services to the community.

under which, after the State has taken its share for use in public funds for research, the remainder of the revenue derived from exploitation of the patent of cephalosporin N and other patents will be shared equally among all co-inventors. The decision of the Comptroller-General of Patents will be announced in writing later.

Cephalosporin N is considered of importance at the present time because the increased antibiotic activity brought about by experimental modification of its side chain has been found to apply also to cephalosporin C, another constituent of *Cephalosporium* active against penicillinase-producing staphylococci.

Increased Postal Charges

OPERATIVE FROM OCTOBER 1

INCREASES in Post Office charges were announced by the Postmaster-General on July 24. They include amendments to telecommunications fees (operative forthwith) and the following changes in postal rates (operative from October 1): Printed papers and samples, inland and to the Irish Republic, 2½d. for 2 oz. (2d.) and 4d. for 4 oz., subsequent rates remaining as at present. Rebates will be given for printed papers and samples posted in bulk, basically 10 per cent. of the total postage for postings of 5,000 to 24,999 and 20 per cent. of the total postage for postings of 25,000 and above. Newspapers (a copy) 3d. for 6 oz. (2½d.), subsequent rates remaining unchanged. The parcel postage rate will be increased by 6d. at all stages, starting at 2s. for parcels weighing up to 2 lb. and rising to 4s. for parcels weighing 15 lb. Charges will be introduced for the stamping of paper for use as postcards and wrappers. For the first 1,000 or part of 1,000 stamps impressed, depending on type of paper and number of stamps impressed a sheet, the charge will be from 10s. to 25s. For each additional 100 or part of 100 stamps impressed the charge will be one-tenth extra. Stamping of envelopes, at present free, will cost 15s. for the first 1,000 or part of 1,000, and for each additional 100 or part of 100 stamps one-tenth extra.

Narcotic Drugs

BRITAIN'S REPORT TO UNITED NATIONS

THE total number of known addicts to manufactured drugs in 1960 was 437; of those, 186 were using synthetic drugs. Sixty-three of the addicts belonged to the medical profession or "allied groups." That information is given in the Government's report to the United Nations on the working of the international treaties on narcotic drugs for 1960. The only seizure of manufactured drugs in 1960 consisted of three samples of pethidine hydrochloride solution, totalling three fluid ounces, placed in a parcel with other drugs sent by post by a firm of pharmaceutical wholesalers in South Africa to a similar firm in the United Kingdom. As no import authorisation had been issued the pethidine was seized; but subsequent inquiries by the competent authority in South Africa established that the pethidine had been inadvertently included

in the parcel. Boots Pure Drug Co., Ltd., ceased to be licensed to manufacture pethidine during the year under review. Licences were granted to J. F. Macfarlan & Co., Ltd., to manufacture benzethidine and furethidine, to Pure Chemicals, Ltd., for phenazocine, and to T. & H. Smith, Ltd., in respect of oxymorphone.

British Approved Names

A SUPPLEMENTARY LIST

THE following supplementary list of approved names has been issued by the British Pharmacopœia Commission:—

APPROVED NAME	OTHER NAMES
Bamipine	4-(N-Benzylanilino)-1-methylpiperidine (Soventol)
Bucetin	N-β-Hydroxybutyryl-p-phenetidine
Chlorphentermine	4-Chloro-αα-dimethylphenethylamine (Lucifen is the hydrochloride)
Diethadione	5:5-Diethylloxazolidine-2:4-dione
Halethazole	5-Chloro-2-(p-2-diethylaminoethoxyphenyl)-benzothiazole (Episol)
Halquinol	A mixture of the chlorinated products of 8-hydroxyquinoline containing about 65 per cent. of 5:7-dichloro-8-hydroxyquinoline (Quixalin)
Laurolinium acetate	4-Amino-1-dodecylquinaldinium acetate (Laurodin)
Lyncestrenol	17α-Ethynyoestr-4-en-17β-ol (Orgametril)
Paramethasone	6α-Fluoro-11β:17α:21-trihydroxy-16α-methylpregna-1:4-diene-3:20-dione 6α-Fluoro-16α-methylprednisolone (Haldron is the 21-acetate)
Thenylidamine	N,N'-Dimethyl-N-2-pyridyl-N-3-thenyl-ethylenediamine
Tigloidine	Tiglylpseudotropeine

Polio on the Increase

URGENT NEED FOR IMMUNISATION

THE number of new cases of poliomyelitis notified in England and Wales during the twenty-four weeks ended

June 17 was 235—an increase of sixty-eight over the number for the same period last year. This rise follows four years of steadily falling figures. A Ministry of Health spokesman commented on the situation: "Nearly all the cases of polio now being notified are those who have not been immunised. This emphasises not only the effectiveness of immunisation but the urgent need for those still unimmunised to seek protection for their own sake and the sake of others; 100 per cent. immunisation of children—the most vulnerable group—is vitally important."

IRISH NEWS

THE REPUBLIC

Ophthalmic Opticians

MINISTRY PERMITS PRESCRIBING

AFTER prolonged negotiations between the Association of Ophthalmic Opticians of Ireland and the Department of Social Welfare, the Minister for Health (Mr. Sean MacEntee) has acceded to the Association's request to permit ophthalmic opticians to prescribe as well as dispense spectacles under the Department's optical benefit scheme. It is expected that the alteration of the existing system will result in a much more comprehensive service for insured persons, and, in rural areas particularly, ensure that the scheme is availed of with a minimum of inconvenience. In effect the extension of the existing panel means that insured contributors may now choose between ophthalmic opticians and ophthalmic surgeons when the need for visual examination arises. A statement issued by the Association welcomes the new development, and expresses confidence that the Association's members will discharge their duties towards insured persons with the same competence that they exercise in private practice.

CERTIFICATION OF BLINDNESS (IN EIRE)

"Existing system adequate"

IN the Dail on July 12, the Minister for Health (Mr. S. MacEntee), told Mr. B. Corish that he did not propose to arrange for the introduction of a revised form of medical certification of blindness for determining eligibility for blind pensions.

Mr. Corish had asked if the Minister had received correspondence from the Irish Faculty of Ophthalmology on the subject of the introduction of a revised blind registration form on several occasions over the past eighteen months, and whether this correspondence had been acknowledged?

The Minister said that on November 24, 1959, the "body styling itself the Irish Faculty of Ophthalmology," a company registered under the Companies' Act, which received its certificate to begin business on March 3, 1959, wrote to him suggesting a revision of a form that was used for the medical certification of blindness for the purpose of determining eligibility for blind pensions. That letter was acknowledged.

At about the time the letter was received, the body concerned, sought to

impose itself on him as a body to be consulted in regard to appointments of certain members of An Bord Na Radharomhastoir, and in effect, instituted a boycott in an attempt to deprive him of discretion vested in him by the Opticians' Act, 1956. In view of that conduct on the part of a self-appointed body, of whose existence he was up to that time unaware, he decided that he was justified in refusing to co-operate.

"I am satisfied," said the Minister, "that the existing system of certification is adequate for the purpose for which it is required, and I am not satisfied that the revised form, which would apply to only a proportion of all the cases of blindness which would arise, would add materially to our knowledge of either the incidence of blindness or its underlying causes. Accordingly, I do not propose to arrange for the introduction of this certificate for the limited class concerned, and in arriving at this decision I am fortified by the views expressed by my competent professional advisers when this question was previously under consideration."

NEWS IN BRIEF

COVENTRY City Council is to be presented with a petition, signed by residents of Canley estate, urging the need for a dispensing chemist on the estate.

THE National Health Service (General Dental Services) (No. 2) Regulations, 1961 (H.M. Stationery Office, price threepence) provides for increased remuneration for dental practitioners in Health Centres.

AN application by Paisley Town Council to have more than one chemist's shop open in the town on Sunday has been rejected by Renfrewshire Executive Council. They pointed out that the services would be increased in the case of widespread illness.

THIRTY firms in Rochdale, Lancs, are co-operating to establish a group industrial health scheme in the area. The object is to provide medical and nursing services for employees and advice to managements on working conditions and associated problems in the health field.

A POISON information service has been established at the General Infirmary, Leeds, where the toxic effects of 8,000 substances and the methods recommended for treating persons having taken them have been listed so that prompt action may be taken in an emergency.

AT the annual meeting of the Scientific Instrument Manufacturers' Association of Great Britain on July 13, Messrs. J. E. C. Bailey, C.B.E. (Baird & Tatlock, London, Ltd.) (a past-president of the Association) and J. E. T. Haile (Rank Precision Industries, Ltd.) were elected to the Council. The other members were re-elected.

A NOTICE (No. 320) by the Commissioners of Customs and Excise explains how the special surcharge on purchase tax and customs duties (see p. 113) will operate. Among other things it includes information on the method of applying for rebate on duty paid on spirits used in making medical articles or for scientific purposes.

SPORT

GOLF.—MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, at Fixby Hall, Huddersfield, on July 12. Result: Hough Hoseason Trophy and prize; 1, J. W. Kemp.

SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY. Forty members attended the meeting at Walton Heath on July 19. Results: Verona Trophy (Stableford), 1, H. Reynolds (Ifield) 35 pts.; 2, R. Hedges (Langley Park) 35 pts.; 3, F. Jamieson (Addington Palace) 34 pts. Phil Thorp Putter (Medal), 1, G. Roberts (Wyke Green) 71 nett. Seniors Prize, 1, H. Duckering (Mapperley) 33 pts. 18 and over handicap prize, 1, J. Cuthbert (Shortlands) 28 pts. Best score on first and last 9 holes, J. L. Wrathall (Shirley Park); J. Hay (Maidstone).

THE OLD PHARMACY AND THE NEW: By inadvertence, the address given for the pharmacy of G. E. Booth & Son, Ltd., which was illustrated and described in THE CHEMIST AND DRUGGIST, July 15, p. 75, was the one from which the company was compelled, owing to demolition of the property, to remove, after thirty years in business there. The new pharmacy is at 19 The Springs, Wakefield.

TOPICAL REFLECTIONS

By Xrayser

Book of receipts

"The Lancashire Medicine for the Bite of a Madd Dog. To be had of Mr. Berry, Apothecary, Mount Street, Berkely Square." Those words, beautifully written in an 18th century hand on the flyleaf of a leather bound volume, immediately arrested my attention. Here, surely, were riches! And a perusal of the handwritten contents of the household recipe book which only recently came into my possession proved far from disappointing. The items are a collection of recipes of all descriptions—oyster sauce, stewed flounders, varnish and Sir Jas. Stuart's purge, finding accommodation beside Daffy's elixir, quince jelly and the Duchess of Marlborough's receipt for hams. There is a delightful inconsequence in the order of entry. No date is to be found, unfortunately, for there is a recipe for orange marmalade the origin of which periodically produces voluminous correspondence in the less-sensational Press. The effect of the haphazard method of entry has almost startling results on occasion, as when a fish sauce shares a page with "The German poultice for ye Gout." For the latter, one takes of rye meal, one quart, yeast 4 ounces, salt 2 ounces—not a wholly unpalatable mixture at first glance. Then add of boiling water a sufficient quantity to make a stiff paste. The paste is to be rolled with a rolling pin to the thickness of a pye crust and—cut to the form of the soles of the feet and bound thereon!

A random selection

In view of its arrangement, or rather its lack of it, a random selection of items is easily made. In the welter of ketchup, "Soop-a-la-Cresy" and curried chicken, one constantly finds the antidote at hand. "For the Wind" is a most valuable entry:—"Hiera Picra one ounce, valerian two drachms, a little Vennice turpentine, two spoonfuls of brandy, mix these up with a little liquorice and make it into pills, taking one or two occasionally." Or it may be that some of the sweetmeats have started up a raging toothache, and it is reassuring to have effective treatment at hand. "Take a pint of cold water. Heat a poker three times red hot and stir it therein till quite cold. Put thereto a handful of salt and teaspoonful of brandy and wash the mouth particularly the aggrieved part therewith often." The merit of such a preparation seems to reside in the fact that it is unlikely to produce alcoholic addiction. Its effect on the toothache is unpredictable. But there were more serious complaints than either the wind or the toothache, as a recipe for "An Excellent Preservative against The Pestilence" shows. "Take lavender, mint, rosemary, rue, sage, wormwood, of each a handful; put them into 4 quarts of the best white wine vinegar in a stone bottle closely stoped. Set it thus on warm ashes and let it stand for eight days. Then strain it off through a flannen and put the liquor into bottles. To every quart add one ounce of Camphire, then cork the bottles very close, it will keep for many years. With this liquor wash your mouth, rubb your temples and loins every day, snuff a little up your nostrils when you go into the air and carry a sponge about you dipt in it to refresh the smell when you think there is occasion, when near any place or person that is infected." There was good reason to fear the pestilence, whatever the efficacy of the elaborate precautions.

More generous

Lord Dundas's receipt for gout cordial did not observe the homeopathic principles observable in the cure for toothache, for you were required to add two gallons of best French brandy, and two bottles of Mountain, and infuse over a slow fire for ten days, before straining. But through the whole work is to be found evidence of concern with pestilence and plague, the latter being treated with pepper, nutmegs, treacle and one ounce of Mirthridate, all made into an infusion in Muscadine wine. "Keep this as you life above all earthly blessings in the plague time," the fading ink tells me, "Under God trust to this, for there was never a man, woman or child that it deceived."

Contractors' Claim for Higher Fees

DETAILS SENT TO MEMBERS OF PARLIAMENT

"THE pharmacists of England and Wales are convinced that when these facts are known, the public, Press and Parliament will accept the justice of their claim. They will, the pharmacists believe, admit the extreme moderation of the claim. They will support pharmacists in their efforts to establish that as men and women who make an indispensable contribution to the National Health Service pharmacists are entitled to receive a recompense which begins to be consistent with their professional status, their training, their skill, and their service to the community." That is the final paragraph in a document entitled "The Pharmacist and the National Health Service," which the Central N.H.S. (Chemist Contractors) Committee has sent to every member of Parliament in England and Wales. It was the first step in publicising the claim for professional fees for National Health dispensing and was set out in a methodical and almost mathematical fashion. It gave the background to the recent decision by the Committee to break with the old style negotiations and submit a claim based on the professional aspects of pharmacy, rather than those of a "mere contractor." Details of the claim were given at a Press conference on July 20, attended by Mr. George H. M. Graham (chairman, Central National Health Service, (Chemist Contractors) Committee), Mr. Albert Howells (chairman, National Pharmaceutical Union) and Mr. J. Wright (secretary, Central N.H.S. Committee).

No Steady Flow

MR. GRAHAM said that the dispensing of prescriptions was whole-time work for only a fraction of the thousands of qualified persons engaged in the chemist contractor service. Nowhere was there a regular, steady flow of prescription forms over the counters of contractors in their nine-hour working day. No two pharmacies in the country dispensed in three successive months identical numbers of prescriptions. Monthly average values varied from establishment to establishment, and from month to month in the same shop. Medicaments which were in constant demand at one shop were seldom handled at a nearby shop, though the number of forms handled might be almost identical. That was easily understood, for doctors' prescribing habits were not uniform. A further point was that numbers of prescriptions per pharmacy per month varied from tens to tens of thousands. Even though less than 100 prescriptions a month were dispensed, i.e., less than five per working day, at least one qualified person must be in attendance.

Pharmacists had not been eager to express themselves in print over the past few years. They had deliberately curbed their desire to rush into print when headline news had been made of the high cost of the pharmaceutical service and some of that high cost had been attributed to the so-called excessive remuneration of the chemist. "That

this is not so we are well aware, but we are painfully conscious that serious statements of rebuttal stand little chance of being read when printed alongside 'Blitz at Bizerta,' etc."

Over the years public opinion had built up a picture of the pharmacist which was not coloured with the right pigments.

Basis of Claim

Mr. Graham then described the basis of the claim submitted to the Ministry of Health and said "On account of the fact that there is so much more to our work than the physical and mental acts involved in the dispensing of a prescription, our claim is for a professional fee of 2s. per prescription, a fee which is a modest one compared with the fees of any other profession." The document entitled "The Pharmacist and the National Health Service" described the long and arduous training of the chemist; the attempts since 1948 to co-operate with the Ministry of Health, only to find that every inquiry—"and there had been eleven major inquiries since then"—had been aimed at making economies by reducing the rewards of the pharmacist. It described the fantastic inquiry of 1958 when the chemists of England and Wales were asked, amongst a host of other questions, to detail their time spent in dispensing at intervals of two minutes over a three-week period; and the algebraic abracadabra used by the Ministry's statisticians. Mr. Graham said that 41 per cent. of the chemists of England and Wales received a net profit, after allowing for salaries, wages and other overheads of £2 6s. 8d. a week—their reward for devoted and accurate dispensing service on behalf of the National Health Service.

"Hitherto the Ministry of Health has been prosecuting counsel, jury, judge and executioner in all assessments of the rate of remuneration. After exactly thirteen years of helpful co-operation we have come from the negotiators' chamber to state our case to a much larger audience. We believe that the plain facts set out in the document lead to only one conclusion—even at this moment of time the claim is a fair one and a reasonable one."

MR. ALBERT HOWELLS began by saying that, to the majority of chemists, a comprehensive National Health Service was, for many years, an ideal that would one day be realised. It was not surprising, therefore, that since the appointed day in 1948 the pharmaceutical profession had done all in its power to make the scheme a success. He continued "I think I can claim, without fear of contradiction, that we have the finest pharmaceutical service in the world today. This service has been so freely and wholeheartedly given that at first it was taken for granted and then, through no fault of the pharmacist, it began to be looked at from an unfavourable angle—the rising costs angle. It is the duty of the chemist to dispense just what the doctor orders,

neither more nor less. As he is reimbursed only for what he supplies it follows that he has absolutely no control whatever over either the quantity or the cost of the drugs and galenicals, etc., that he dispenses."

The work of the pharmacist fell into two categories—one professional and the other commercial. It was partly because those two functions had been bracketed together, and one overall figure given, that the idea had arisen that the chemist was overpaid. "Certainly when one looks at this global figure and the way in which it has risen over the years one might be forgiven for thinking that *someone* somewhere ought to be doing *something* about it. In the absence of an obvious culprit it has become very easy to make the chemist the whipping boy."

The time had come to secure not only recognition of the pharmacist's work and its place in the National Health Service, but also to obtain a modest reward for that work. It had been decided to do two things:

First, to launch a campaign of public education, "confident that we have a just cause and have, therefore, no fear of publicity but, on the contrary, welcome it." Secondly, to make a new approach in the method of negotiations based on the complete separation of professional and commercial duties. Then, "when we are successful a much clearer and fairer picture of the cost of the consumption side of the pharmaceutical service will be possible. At present no one suggests that a portion of the doctors' professional fees should be added to the cost of the prescription for the purpose of saying that a bottle of medicine costs so much. Yet, quite clearly, some cost is involved. Why then should the whole of the chemists' professional fees be so added?" Mr. Howells suggested it was more sensible to separate the cost of ingredients plus oncost, and the professional fees. "Doctors so much, chemists so much, dentists so much, etc."

On the professional side, over 200 million prescriptions per year were dispensed in chemists' shops with such accuracy that the patients had unquestioning confidence in chemists and, indeed, never seemed to give it a thought it could be otherwise.

Free Services Rendered

The duty, however, was not confined to the physical motions of mixing medicines or counting the tablets. "Our responsibility begins as soon as the prescription is handed over the counter and continues until the finished product leaves the pharmacy. It should not be forgotten that there is a pharmacist on duty during the whole of the time that the pharmacy is open for dispensing, whether any prescriptions are handed in or not, but he is only paid for the prescriptions actually handled. . . . It is our intention to tell the public what this responsibility entails and to draw attention to the many

services rendered by the chemist to the public in connection with the National Health Service, but to which no prescription is attached and, therefore, no payment accrues."

Bearing in mind that, unlike the medical profession, chemists had no "panel list," their professional fees must be arranged so that they were paid on each item dispensed and could not, therefore, be calculated on a time and motion basis but must be fixed by having regard to factors that could not readily be put on paper and equated to the second or third place of decimals of a penny. "We think that having regard to the standard of education needed to enter the profession, the length of the academic course, the number of hours we are on duty, the average earnings of the other professions in the Health Service, the average number of prescriptions dispensed in the majority of chemists' shops and other factors, a fee of 2s. per item is, indeed, a very modest one. Meetings that have been held recently throughout the country by chemists confirm us in this view."

During the discussions that followed the speeches, Mr. J. WRIGHT said that it was difficult to assess the value of the claims that had been submitted, because of the unknown effect of the 2s. prescription charge, but if a fall of 10 per cent. was assumed, then the additional fees would approximate £7.7 millions. The increased container charge would mean an increase of under £ $\frac{3}{4}$ million; urgent fees about £70,000; the rota fees would be "quite small." Asked how long chemists would be prepared to wait for their new claims to be considered Mr. GRAHAM said that obviously it would be necessary to give the Ministry time to reorient themselves to the change in approach.

It was obvious that chemists could not "take strike action." Urgently required medicines must be supplied, but Mr. Howells pointed out that at local meetings of chemists held to consider the claims all, "I think without dissent," had said that if the Minister rejected the claim then they should give notice of withdrawal from the National Health Service.

A "Proper" Dispensing Fee

If chemist contractors withdrew from the Service, EC10 forms would be accepted as prescriptions but medicines would not be supplied under the N.H.S. A proper dispensing fee would be payable. If the patient could not pay he could first approach the National Assistance Board in accordance with the routine that was now in operation. Another questioner was informed that there were "quite a number" of pharmacies that were dispensing so few as twenty-eight prescriptions a month.

All the speakers referred to the fact that the Pharmaceutical Services were responsible for only 10 per cent. of the cost of the National Health Service. Mr. Graham pointed out that the chemist contractors received the equivalent of one-third of a penny per day for each person on the doctors' lists, and that of every £1 of the national income, 1d. was spent on the Pharmaceutical Services, 1s. on alcohol, and 2s. 3d. on entertainment.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

REFERENCE to the shortage of dressings for hospitals following the re-organisation of the cotton industry was made by Mr. James Boyden when he asked the Minister of Health what representations he had made to remedy the shortage. MISS E. PITT (Parliamentary Secretary, Ministry of Health) said in a written reply on July 18 that the shortage had largely been overcome.

Average Prescription Costs

MR. KENNETH ROBINSON asked the Minister of Health if he would state the average cost per item of prescriptions dispensed in each month of 1961. MR. ENOCH POWELL (Minister of Health), in a written reply on July 18, gave the following information in respect of England and Wales: January, 7s. 4-39d.; February, 7s. 5-47d.; and March, 7s. 11-19d.

Drug Addiction

MR. K. ROBINSON on July 20 asked the Home Secretary how many of the new cases of drug addiction known to his Department in the last two years for which figures were available arose in the course of medical treatment. MR. R. A. BUTLER (Home Secretary) stated that the available information suggested that in 1959, 103 new cases were of therapeutic origin and fourteen of non-therapeutic origin.

Opposition to Prescription Charges

MR. W. A. PAVITT asked the Minister of Health if he was aware of the decision of the annual conference of Local Medical Committees on June 15 which registered opposition to the increased prescription charges, and if in view of that new evidence from the majority of general practitioners in the Health Service he would now abolish those charges. MR. POWELL: The answer to the first part of the question is "Yes" and to the second part "No."

MR. PAVITT asked what steps the Minister had taken to ascertain the effects on dispensing chemists of the increased prescription charges. MR. POWELL: "I am not aware what you have in mind." MR. PAVITT: "Are you aware of the great dissatisfaction among dispensing chemists at the present situation, at the change in the dispensing habits from people coming at the end of the week—at pay day—rather than at the beginning. Can you tell the House if there is any threat of a strike on the part of dispensing chemists? If so, what emergency plan have you to meet the desire of patients to have their medicines?" MR. POWELL: "That seems to be a different question. I have had no representations on a change in the dispensing habits to which you refer." MR. K. ROBINSON: "Has not the increased prescription charge led to a demand for a very considerable increase in dispensing fees by chemists? Is not your saving going to be a very expensive one in the end?" MR. POWELL: "It is much too soon to know whether there is any reduction in chemists' income as a result of or since the increase."

American Drug Companies

MR. A. F. HOLT asked the Minister of Health on July 25 if he was aware

of the increasing control of the British drug industry by U.S. firms; what proportion of the Health Service drug bill was paid to U.S.-controlled firms and what action he proposed to take to limit the amount of drugs purchased from such firms. MR. POWELL: "The answer to the first and third parts of the question is in the negative. I regret that the information asked for in the second part is not available." MR. HOLT: "Do you agree that some of the American firms have been responsible for the high pressure type of salesmanship which seems to have led to a waste in drugs? Have any representations been made to them to cease some of these practices so that we can get greater economy in the drug bill?" MR. POWELL: "I am anxious by any means to ensure that the Health Service gets the drugs it needs on the best possible terms, but I do not think that that would be done by discriminating against one set of firms as such. The Association of British Pharmaceutical Industry has taken some quite successful steps in recent years to increase the standards of sales promotion in some quarters."

MR. HOLT asked whether the Minister had been able to collect sufficient evidence of the savings to be made on the drug bill by the more widespread use of drugs from the British National Formulary to make an estimate of the total annual saving to the Exchequer. MR. POWELL: "No."

BUSINESS CHANGES

E. MOSS, LTD., have acquired the pharmacy of G. T. Young, Ltd., 29 North Street, Guildford, Surrey.

MRS. A. L. WILLIAMS, M.P.S., has opened a pharmacy at 88 Dew Street, Haverfordwest, Pembrokes, and will trade as A. Walsh Williams.

MR. WILLIAM HOLDEN, M.P.S., F.B.O.A., has opened a pharmacy at 1434 Wimborne Road, Kinson, Bournemouth.

ARNOLD M. GEE, LTD., have acquired the two businesses carried on by Mr. J. W. Davie, M.P.S., at 113 High Street, and 9 Money Hill Parade, Rickmansworth, Herts.

Appointments

PULLIN OPTICAL CO., LTD., have appointed Mr. M. Elsdon their sales office manager at their new Perivale headquarters.

SOLPORT BROTHERS, LTD., Portia House, Spencer Street, London, E.C.1, have appointed Mr. R. Jones their export manager as from August 1.

MONSANTO CHEMICALS, LTD., 10 Victoria Street, London, S.W.1, have appointed Mr. G. V. Cox, general manager of sales, plastics products, and Mr. M. W. Waugh, general manager of sales, chemical products.

STOTHERTS, LTD., Atherton, Lancs, have made the following appointments: Messrs. D. Gemmell, field sales manager; K. Hilton, north-west area supervisor; R. L. Hardy, northern area supervisor, and F. C. Martin, field sales manager.

COMPANY NEWS

Previous year's figures in parentheses

LAPORTE INDUSTRIES, LTD.—Mr. B. H. Oldfield (director and engineering manager of Laporte Chemicals, Ltd.) is retiring in September.

ILFORD, LTD.—An unchanged interim dividend of 5 per cent. for the year ending October 31 is declared. The board state the turnover has been maintained but costs continue to rise and profit margins to shrink.

MUREX, LTD.—Final dividend for year ended April 30 is 8 per cent. making 13 per cent. for year (compared with an equivalent of 12.86 per cent.) Group profit before depreciation and tax, £1,661,000 (£1,643,000); depreciation, £310,000 (£297,000); taxation, £660,000 (£639,000).

BOWMANS CHEMICALS, LTD.—Because of the higher costs experienced in the industry generally and lower export demands, the directors expect the profit for the year ending October 31 to be lower. But prospects are encouraging, and expenditure of £100,000 on plant expansion and new projects has been authorised. An interim dividend of 5 per cent. is declared, and the board hope again to recommend a final of 7½ per cent. making a total of 12½ per cent. (against the equivalent of 11.35 per cent.).

DISTILLERS CO., LTD.—The annual statement by the chairman (Sir Graham Hayman), for the year ended March 31 points out that the biochemicals division had a more successful year in spite of further deterioration in export prices of basic antibiotics. The improvement in trading results was achieved by reorganisation of production and research facilities, and by increasing diversification of the company's range of products. Their two subsidiary companies in Australia and New Zealand continued to make progress. The chairman mentions that there is a constant need to develop new products in the highly competitive conditions which exist in the pharmaceutical industry. To that end, a new pharmacological laboratory has been established at Speke, thereby increasing the facilities available for screening of substances which may have therapeutic value. Additionally, improved plants for processing antibiotics have been commissioned which incorporate new techniques evolved from the company's development work.

SOUTH AFRICAN DRUGGISTS, LTD.—The full accounts show a group trading loss, after tax, of R1,574,788 for the year to October 31, 1960, against the previous profit of R57,810. There are additional non-trading losses of R188,626 (R36,432) and non-trading surpluses of R384,288 (R30,000). There is again no Ordinary dividend, and the Preference payment due September 1 will not be declared. The present board reports that turnover for the six months to April 30, amounted to R9,640,563, against R10,647,221 for the corresponding previous year period. There has, however, been a reduction of R95,318 in salaries and wages and general expenses have also been reduced. Since April further drastic economies have

been introduced, the impact of which will only be reflected in the results at October 31. While the directors cannot forecast the trading result for the current year, they are confident that a substantial improvement, as compared with last year, will be achieved. The full benefit of economies will, however, only be felt in the year 1961-62.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

GIRL COSMETICS, LTD. (P.C.).—Capital £1,000. To manufacture and deal in beauty products, etc. Directors: Stanley H. Picker (U.S.A. citizen) (director, Gala of London, Ltd., etc.) and William P. Kavanagh (Eire citizen) (director, Miner's Make Up, Ltd., etc.). R.O.: Hook Rise, Surbiton, Surrey.

LEGAL REPORTS

Sale Without Prescription

FOR selling hydrocortisone (in Cortril lotion) without a doctor's prescription, Ebbw Vale Industrial and Provident Society, Ltd., were recently fined £10, with £6 6s. costs, by Ebbw Vale magistrates. The Society admitted the offence. It was stated for the Pharmaceutical Society, which prosecuted, that a girl assistant supplied the customer. When Mr. G. Williams, the pharmacist in charge, was told about the matter, he expressed regret and said that he thought a prescription had been received. A serious view was also taken, it was stated, of the fact that a twenty-year-old girl was allowed to serve the drug without supervision. For the defence it was stated that there was nothing to indicate that the drug was dangerous, or that it should only be sold with a prescription. The defendants were concerned about the matter.

No Qualified Supervision

A WARNING that pharmacies must not be left in charge of unqualified people during opening hours was given at Salisbury city magistrates' court on July 24, when Mrs. Margaret Jean Terry, M.P.S., 35 Catherine Street, Salisbury, was fined £5, with £5 5s. costs, for an offence under the Pharmacy and Poisons Act, 1933. She pleaded guilty to selling a travel-sickness remedy which contained poison, the sale not being effected by or under the supervision of a registered pharmacist. Conducting the prosecution for the Pharmaceutical Society, Mr. A. C. Castle said he had the unpleasant task of prosecuting the defendant on behalf of a Society of which she herself was a member. The 1933 Act, he said, was to control the retail distribution of poisons, but particularly to ensure that chemists' shops were conducted at all times under qualified supervision. The preparation which she sold by the hand of an agent was not a highly lethal or dangerous substance. It was a travel sickness proprietary medicine called Marzine which contained cyclizine hydrochloride. It could only be sold by a pharmacist or supplied by a doctor. At the time of the sale the defendant was not in charge of her pharmacy nor was another pharmacist there in her place. The Council of the Pharmaceutical Society brought the prosecution with reluctance, but they had a duty to perform which was to see that for the

protection of the public the Act was faithfully complied with. Mr. Castle added "The purpose of the prosecution is to bring home to defendant and chemists that they must not leave their premises in the hands of unqualified people." Mrs. Terry said she was not at her shop at the relevant time because her son, who had been in hospital, could not be left alone. The assistant who sold the tablets was only seventeen. "She sold them quite innocently and I would not blame her."

DEATHS

BLAKE.—On July 15, Mr. Ernest Edgar Blake, a past-chairman and managing director and, for thirty years, a director of Kodak, Ltd., aged eighty-two, Mr. Blake, who was actively engaged with the company until the time of his death, had completed over fifty-eight years' service with Messrs. Kodak.

DUTTON.—On July 18, Mr. Norman Nicholas Dutton, M.P.S., 53 Stocks Lane, Chester, aged seventy-eight. Mr. Dutton was chairman of Cheers and Hopley, Ltd., 6 Northgate Street, Chester, where he was an apprentice. From 1925 to 1935 he was secretary of the Chester Branch of the Pharmaceutical Society and the local branch of the National Pharmacists' Union. He was a Freeman of the city of Chester and a member of the Joiners' Company of the City Guilds.

FRENCH.—On July 10, Mr. Maurice French, M.P.S., Eaton, Home Close, Histon, Cambs, aged seventy-six.

MACLEAN.—On July 9, Mr. MacLean, M.P.S., 33 Wilson Avenue, Kilmarnock, Ayr, aged seventy-five.

PORTER.—On July 3, Mr. Herbert Duncan Porter, M.P.S., 2 High Street, Tideswell, nr. Buxton, Derbys. Mr. Porter qualified in 1921.

RALPH.—On July 23, Mr. William Ralph, F.P.S., 8 Kent Gardens, Ealing, London, W.13, aged ninety-five.

SIMPSON.—On July 8, Mr. John Simpson, M.P.S., 14 Park Avenue, Levenshulme, Manchester. Mr. Simpson qualified in 1932.

SMITH.—On June 29, Mr. Charles Frederick Smith, M.P.S., 145 Station Road, Herne Bay, Kent, aged eighty.

TAYLOR.—On July 9, Mr. George Alan Taylor, M.P.S., 101 Chapel Street, Ilkeston, Derbys. Mr. Taylor qualified in 1899.

WARD.—In February, 1961. Mrs. Hypatia Ward, 25 Broad Walk, Wilmslow, Ches. Mrs. Ward qualified as a chemist and druggist in 1924.

WATTIE.—On July 11, Mr. John Wattie, M.P.S., 76 High Street, Albrighton, Wolverhampton, aged sixty-six.

OVERSEAS VISIT

MR. ALEC HONEYMAN (managing director, Mentholatum Co., Ltd.), who recently returned from a business visit to Canada and America, is shortly flying to Singapore, Malaya, Australia and New Zealand on behalf of his company. The company state that over 75 per cent. of the output from their factory goes overseas and total sales exceed 33 million package units yearly.

NEW PRODUCTS AND PACKS

Oral Analgesic. — Burroughs Wellcome & Co. (the Wellcome Foundation, Ltd.), 183 Euston Road, London, N.W.1, announce the issue of a new potent oral analgesic, Diconal tablets, available in packs of twenty-five and 100. Diconal tablets supersede the company's Pipadone Compound tablets, which are no longer being issued.

Broad-spectrum Penicillin.—Third in a series of synthetic penicillins produced in the research station of Beecham Research Laboratories, Ltd., Brockham Park, Surrey, as a result of the discovery of the entity of the penicillin nucleus in 1957, is Penbritin, described as a "broad-spectrum" penicillin. Issued in capsules of twenty, 100 and 500, the compound is chemically 6[D(-) α -aminophenylacetamido] penicillanic acid. It is understood (see second column) to be active against certain strains of bacteria unaffected by other penicillins and, against some strains, to be more active than any other antibiotic at present in general use. Laboratory tests have indicated activity against the bacteria responsible for typhoid fever and food poisoning. Supplies are at present reserved mainly for hospitals.

Improved Packs for Injection Products.—The Distillers Co. (Biochemicals), Ltd., Broadway House, The Broadway, London, S.W.19, are marketing their injectable antibiotic products in new vials with new packaging adjuncts. The vials now include a general-purpose injection-type container for the lower strengths and a new type of multi-dose container. Adoption of the vials has enabled new and better closures to be developed, one size of aluminium seal and one size of rubber disc replacing various types and sizes previously used. Several advantages are claimed for the rubber discs, which are of a unique plano-convex shape; the advantages include resistance to moisture, easier needle penetration, and excellent re-sealing characteristics. Unlike ordinary rubber stoppers, they have no thick shoulders. If a needle is inserted at an angle, therefore, problems of blocking and difficult penetration do not arise. The discs have a composition formulated to give maximum compatibility with the products. The aluminium seals have larger apertures to cater for the insertion of two needles simultaneously through the rubber discs, a practice employed in some hospitals for the preparation of antibiotic injections. Tests have shown that vials bearing the closure and filled with air under a pressure of 60 lb. have lost no entrapped air after storage. The contents of the vials of the higher strengths of antibiotics injections are stated to be used for purposes other than the giving of injections, for example the extemporaneous preparation of streptomycin for oral administration. In the past, many of the containers have been difficult to open. In an attempt to overcome the difficulty, some closures are made to be removed and replaced easily, and it does not become obvious that removal and exposure of the contents to contamination have taken place. With the company's new special multi-dose vial, those problems have

been overcome, because the vial closure consists of a plano-convex rubber disc under an aluminium seal incorporating a manual tear-off device. Once removed, the seal cannot be replaced, and the whole of the closure is housed in a



BETTER PRESENTATIONS FOR INJECTION SOLUTIONS:
The container of three vials and components of the single-dose and multi-dose containers for injection solutions recently adopted by Distillers Co. (Biochemicals), Ltd., London, S.W.19.

are in use or in storage. A degree of colour coding has also been introduced. The new range of packaging material is available with the introduction of Soluvone, an injection containing crystalline sodium penicillin G and streptomycin sulphate. The larger strengths of Solupen (5 and 10 mega units),



plastic screw-cap, which protects the disc and seal. The opportunity has been taken to improve the design of the vial and cartons so that the essential facts are easily read when the products

Solupen buffered (5 and 10 mega units), streptomycin sulphate (5 gm.), dihydrostreptomycin sulphate (5 gm.), and Mixtamycin (5 gm.) are available in the multi-dose container.

A NEW "BROAD-SPECTRUM" PENICILLIN

Latest outcome of Beecham research drive

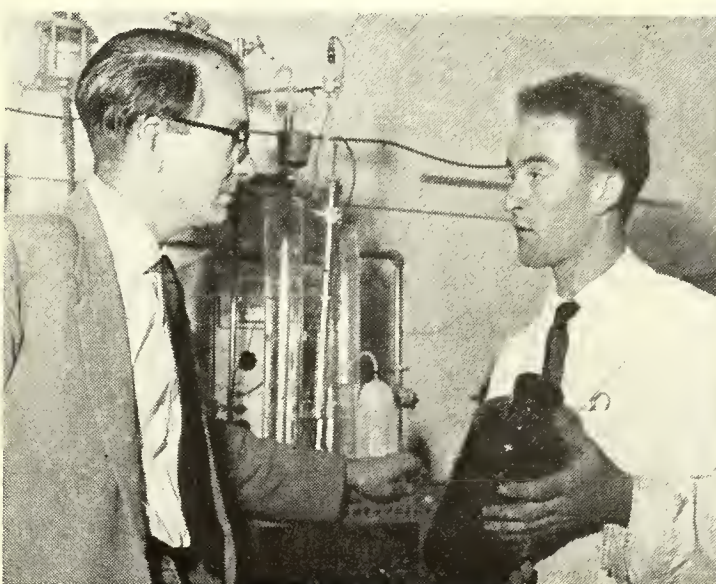
THE recent statement by the chairman of Beecham Group, Ltd., that the introduction of new penicillins undergoing final stages of evaluation by Beecham Research Laboratories would "revolutionise the antibiotic treatment of disease" (see *C. & D.*, July 8, p. 30) has received early substantiation. Penbritin, one of a series of side-chain derivatives of 6-aminopenicillanic acid prepared during the past two years, was announced on July 22 by the simultaneous publication in the *British Medical Journal* of four papers giving the results of clinical trials on the substance. Known as BRL 1341 until its release, Penbritin has the chemical name 6[D(-) α -aminophenylacetamido] penicillanic acid. The extent and degree of its antibiotic activity differ from those of the two synthetic penicillins (Broxil and Celbenin) previously introduced by the company, in that, while Penbritin is inactivated by penicillinase and cannot, therefore, be considered the oral "partner" to Celbenin, its range of action is far greater than that of any

penicillin derivative so far produced.

In discussing the results of their microbiological studies of Penbritin, Robinson and Stevens (*Brit. med. J.*, July 22, p. 191) point out that high activity against Gram-positive cocci, together with small activity against Gram-negative bacilli, is "almost characteristic" of a penicillin. They found Penbritin ten times more active than penicillin G against the Gram-negative organisms and only slightly less active against Gram-positives. In comparative tests with tetracycline and chloramphenicol, Penbritin was the most effective against *Salmonella* and *H. influenzae*; in contrast to those two antibiotics it was bactericidal, and was not affected greatly by the presence of serum.

In vivo tests carried out by Stewart and others (p. 200) confirm the lack of toxic reactions to the drug, and indicate its further usefulness in combating *Salm. typhi* and streptococci. Tests by Knudsen and others (p. 198) on the absorption and excretion of Penbritin allowed a dosage scheme to be evolved.

The antibiotic was found to be well absorbed orally and about 30 per cent. appeared in the urine within 6-8 hours. See also New Products.



PRODUCTS OF RESEARCH: Mr. Frank Doyle, head of the chemistry department at the Brockham Park, Surrey, research station of Beecham Research Laboratories, Ltd., in conversation with a member of his staff who holds a bottle of the company's new penicillin product Penbritin, a "wide-spectrum" penicillin. It may prove effective against typhoid and food poisoning.

TRADE NOTES

Change of Distributor.—Lantigen (Export), Ltd., announce that the distribution of Delagar bath pearls is now handled by Marketing Facilities, Ltd., 197 Lyham Road, London, S.W.2, to whom all inquiries should be addressed.

Tax Increase Absorbed.—Haetam, Ltd., 63 Corporation Street, Manchester, 4, states that the purchase-tax increase on their products is being borne by the company by allowance of an equivalent discount to stockists.

A Caption Corrected.—An illustration of the Passport perfume Cologne spray of Goya, Ltd., 161 New Bond Street, London, W.1, in the July 8 issue of the *C. & D.*, p. 34, should have been captioned with that product name and not as printed.

Credit Claims.—Reduced prices for many penicillin specialities are announced by their manufacturers, and special claim forms for credits for stocks bought at the old prices have been sent to the trade. The forms should be returned not later than August 14.

Reformulated.—Germoloids have been reformulated. The product contains two local anaesthetics, lignocaine and benzyl alcohol. The antiseptic properties have also been increased. The Germoloids pack has also been re-designed. The manufacturers are Beecham Pharmaceutical, Ltd., St. Helens, Lancs.

New Display Units.—County Laboratories, Ltd., Beecham House West, Great West Road, Brentford, Middlesex, have made available two new display pieces for Du Lundi Body Mist perfumed deodorants. The units, one a card counter unit and the other a wire dispenser, are designed to take up minimum counter space. They carry the full range of Messrs. County's Body mist products.

A Service to Pharmacists.—Brook, Parker & Co., Ltd., Ashfield, Bradford, 7, are suppliers of galenicals, pharmaceutical chemicals, pharmaceutical specialities, tablets, pills, capsules, sundries, veterinary preparations, insecticides and detergents to pharmacists; direct importers of vegetable drugs; and factors of photographic and electrical goods. With headquarters at Ashfield, Bradford, 7, the company operate depôts also at 314 Duke Street, Glasgow, E.1; 73 Dunard Street, Maryhill, Glasgow; and 35 Thornilee, Calderwood, 6, East Kilbride.

August Bank Holiday

In England and Wales most manufacturers will be closed on Bank Holiday Monday, August 7. The following have notified special arrangements:—

BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1. Emergency staff at Nottingham and Graham Street, London, will deal with urgent orders on the morning of Saturday, August 5.

DISTILLERS CO. (BIOCHEMICALS), LTD., Speke and Wimbledon. Urgent supplies from John Bell & Croyden, 50 Wigmore Street, London, W.1.

GEIGY PHARMACEUTICAL CO., LTD.,

Roundthorn Estate, Wythenshawe, Manchester, 23. Normal service.

GLAXO LABORATORIES, LTD., Greenford, Middlesex. Skeleton staff for emergency orders.

MAY & BAKER, LTD., and **PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD.,** Dagenham, Essex. Urgent supplies from John Bell & Croyden, 50 Wigmore Street, London, W.1.

PAINES & BYRNE, LTD., Perivale, Greenford, Middlesex. Emergency supplies from John Bell & Croyden.

PFIZER, LTD., Sandwich, Kent. Staff available for urgent orders from 8 a.m. to noon on Saturday, August 5.

L. REES & CO., LTD. (ISOVAC DIVISION), Tottenham, London, N.15, closed from July 28, until August 14. The London sales office will operate as usual.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A Protest at a Penalty

SIR,—I suggest that pharmacists might show what they feel about the quite savage punishment inflicted on Mr. Sim by the Statutory Committee (see *C. & D.*, July 15, p. 61) for his lapse by never again voting, in a Council election, for any of the elected members of that Committee.

ANTI STAR CHAMBER

Hours of Service

SIR,—For your information the local pharmacists in my area reduced their hours of service by notification, not application, on three occasions, without any question. We inform the Executive Council of our intent and neither request nor receive sanction.

J. H. DEWHIRST,
Bradford

No doubt the Hours-of-service Committee has approved the change, otherwise sanction could have been withheld. In England and Wales an hours-of-service scheme is prepared by the Executive Council in consultation with the Pharmaceutical Committee. It is administered by an Hours-of-service Committee established under the scheme. Three of the seven members of the Committee are appointed by the Pharmaceutical Committee.—EDITOR.

Trials with a Spray

SIR,—Your notice of the Boots' pain-relieving spray on p. 621 of your issue of June 17 mentions the article on cold spray treatments by Ellis in the *British Medical Journal* of January 28. While what you have printed is entirely correct, we have found that a number of people who have read your paragraph are left with the impression that the article in question refers to trials with the Boots' pain-relieving spray, when in fact it refers by name to Skefron, a product that we have been marketing since February.

R. A. WEEKS, Advertising manager,
SMITH KLINE & FRENCH
LABORATORIES, LTD.,
Welwyn Garden City, Herts

EDWARD TAYLOR, LTD., Monton, Eccles, Manchester. Factory closed from the evening of Friday, July 28, to Tuesday morning, August 8. During the holiday period a skeleton staff will deal with urgent orders.

Bonus Offer

CROWN CHEMICAL CO., LTD., Stair, Lamberhurst, Kent. Improved Pygmia. One doz. 25-mil bottles for the price of eleven. During August.

RECKITT & SONS, LTD., Hull, Yorks. Dettol. Twelve charged as eleven. On minimum order for 3 doz. C size or 1½ doz. B size, or combination of both.

INFORMATION WANTED

The Editor would appreciate information about the following:

Tormix diet
Olive sun-glasses

Margins

SIR,—One must accept Mr. Luddington's assurance (*C. & D.*, July 22, p. 95) that his company values the co-operation of chemists, but one could wish that that co-operation were valued a little higher. It is interesting to compare the figures Mr. Luddington gives with the return from an investment in a Building Society:

	No quantity terms 6s. 4.275d. per doz.	7½ per cent. quantity discount 7s. 6.461d. per doz.	Building Society investment
	£ s. d.	£ s. d.	£ s. d.
Retail	100 0 0	100 0 0	100 0 0
Gross profit	21 3 9	25 2 6	
Overheads	15 0 0	15 0 0	
Net profit	6 3 9	10 2 6	6 2 5
less income tax 7s. 9d. in £	2 7 11	3 18 5	2 9 1
Net income	3 15 10	6 4 1	3 15 0

It may be argued that £100 turnover is not the same as £100 capital invested; if, however, one considers the total sum of capital necessary to conduct a business today—property, fittings, stock and goodwill—I think that the investment is reasonably comparable. When one considers also that the Building Society pays one for sitting on one's haunches whilst customers require one's attention five and a half days a week for fifty weeks a year, then the necessity for keeping an eye on the margin is even more obvious.

A. BASTOW,
New Mills, Derbys

Wanted: Help with Calculations

SIR,—Would any enterprising house be interested to earn the undoubted undying gratitude of countless folk like us pharmacists, who now have to wrestle with the new rates of tax, by compiling and issuing a ready reckoner showing 55 per cent., 27½ per cent., and 13½ per cent. of "x" £. s. d.

F. J. BREAD,
London, S.E.15



The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

The "Little Budget"

THE Finance Act, 1961, having received Royal Assent, the Chancellor of the Exchequer on July 25 announced the various measures the Government intended to adopt to put the nation's economy on a sounder footing. Included among them was the expected special surcharge of 10 per cent. on the main Customs and Excise revenue duties and on purchase tax, which we mentioned last week (p. 89). The Chancellor emphasised that the surcharge was 10 per cent. of the current rates and not an additional 10 per cent. For example, purchase tax on medicines goes up from 25 per cent. to 27½ per cent. and on cosmetics from 50 to 55 per cent. The scope of the Customs and Excise charges in question will embrace duties on the following: Glucose, hydrocarbon oil, molasses, purchase tax, saccharin, spirits, sugar, tea, television advertisement, tobacco and wine. The effect of the increased taxes on the selling price of individual articles, said the Chancellor, would be a matter for the trades concerned.

Perhaps the most serious measure taken has been the change in Bank rate, which has been hoisted to 7 per cent. from 5 per cent. Private borrowers may now be charged up to 9 per cent. a year on bank loans, and industrial borrowers will have to pay at least 8 per cent. In addition to the increased borrowing rates all businesses will be severely affected by the increased postal and telephone charges announced on July 24 (see p. 106).

Last week we posed the question "Will the Chancellor provide a permanent solution to the country's economic ills?" The measures he has announced appear to us sadly disappointing and unimaginative. During the past fifteen years economic crisis has followed economic crisis with, it seems, monotonous regularity and always Whitehall has adopted the same attitude: Damp down home consumption by increasing taxes and so force the traders into the export market. A decade ago there was sense in such reasoning, for commodities were then scarce, countries like Western Germany were not producing for export, and many overseas buyers had sterling to spend but no dollars. That period, however, has long since passed. There is today in all producing countries a surplus of many goods for export.

How, by increasing taxation which has put up the cost of living index 1.5 points, and must lead to (1) demands for higher wages; (2) higher transport charges, and imposing restrictions on credit which must damp down expansion programmes, the British exporter is

going to be made more competitive may be clear to the Chancellor but it is not to us. We looked, as we feel the country is looking, for imaginative measures to put productivity in Britain at the levels, or rather at the rising inclines, boasted by the countries that are at present in the lead.

The Campaign is Launched

THE campaign in support of the claim for a professional fee and other increased fees for chemist contractors under the National Health Service was successfully launched last week, when Messrs. George Graham, Albert Howells and J. Wright met members of the national and local Press to explain and discuss the claims (see p. 108). The campaign may be said to have had an excellent, though not a flawless, beginning. The speakers are to be congratulated on the way they handled questions, though it was unfortunate that the problem of the effect withdrawal from the service would have on particular members of the community, such as old age pensioners, appeared not to have received detailed consideration before the session began. That was a human aspect of the story that was surely bound to arise, though, of course, it is also the type of missile which those outside the target area are often able to see more easily than those who have to deal with the questions as they come. That mild criticism must not be allowed to cast too heavy a cloud over the goodwill that must have inevitably accrued from the session if the published reports are taken as evidence. It was an excellent idea to invite the president and the two secretaries of the Pharmaceutical Society to be present, for there was much to be learned from the night's experiment. As one Council member observed, the whole of the Society's membership will reap advantage.

The Society must enter into this campaign, and the subcommittee that has been formed by the Council to consider the matter of professional fees should deal promptly with its work, giving guidance to the Council and the membership at the earliest possible moment.

The Press conference and the document submitted to members of Parliament are but the initial steps in the contractors' campaign. Though the Press can assist in furthering pharmacists' claims, much more can probably be done by the individual in his dispensary, for it is in moments of "customer contact" that the public image of the pharmacist is built up. When such meetings occur in a professional atmosphere and surroundings, then the individual patient is assuredly enlisted as a supporter of the contractors' case for more acceptable recompense for service.

In that way every pharmacist can ensure the widest support for the new claims, which unfortunately have been presented at a time when the country's worsening economic situation has been highlighted.

What Price Education?

FOUR years ago in a leader entitled "Educational Dilemmas" (*C. & D.*, July 20, 1957, p. 63) we wrote, "The basic dilemma of pharmacy today is that while its educational standards advance, its rewards recede or are under the threat of recession."

That is certainly no less true today than it was then and, indeed, reconsidered now within the context of the present discontents of the chemist contractors and the Health Minister, the words assume almost prophetic overtones.

Since that time there have occurred the introduction and establishment of the Pharmaceutical Society's three-year qualifying course. Increased and more widespread attention has been given to standards of pharmaceutical education. The graduates now issuing from the country's universities and schools of pharmacy have at no time previously been so highly trained or, for that reason, so competent to practise their craft. They are young men and women excellently equipped to be the representatives of a skilled and honourable profession, well able to cope with the changing and increasingly rigorous demands made of it, and more than ever worthy of their hire. They should be recognised as such.

Post-Budget Prices

THE Chancellor's "little Budget" has virtually coincided with the date at which we should have been sending our last revisions of prices for the next issue

of the *C. & D.* Quarterly Price List, due to appear on September 1. Every manufacturer represented in that list was written to immediately the Chancellor had made his announcement and asked to notify the new prices of products affected by the surcharge on purchase tax rate. That information will be sifted and sorted with the utmost expedition. The size of the Quarterly List is such, however, that some postponement of publication date may become necessary—it is impossible at the moment to say how much. Users of the List may be assured, however, that every effort will be concentrated on bringing it to them at the earliest possible date.

To the manufacturers concerned, who will have found our request for new prices in their Wednesday morning mail, we would add a plea to let us have their replies with equal promptness. They will appreciate that to do so will be to the benefit of everybody in the trade.

Pharmaceutical Society of Northern Ireland

MONTHLY MEETING OF COUNCIL

THE monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on July 20, the president (Mr. A. Templeton, J.P.) in the chair.

The Council impressed the Seal of the Society on the certificates of qualification of students who passed the Society's June 1961 Part II Qualifying examination.

The Council also granted, on the proposal of MR. H. G. CAMPBELL, seconded by MR. D. MOORE, two applications for restoration of names to the register—from Mrs. Sheila Baird (née Watson), 17 Massey Avenue, Belfast, and Miss Annie E. Staunton, Rostrevor Road, Warrenpoint.

Passed to Benevolent Fund

THE SECRETARY read a letter from Mr. N. D. Wright (honorary secretary, Northern Ireland Branch, British Medical Association) expressing the Branch Council's appreciation for the use of the Society's Council Chamber during the past year and enclosing a cheque for £26 5s. The letter stated that new premises had been acquired, and the Branch Council would therefore not need to call on the Society's hospitality in future. It expressed thanks for the kindness and consideration shown in the past when the Branch Council had been without premises. The Council agreed that the amount sent should go to the Northern Ireland Chemists' Benevolent Fund.

Mr. A. Gorman also reported that a donation of £50 had been received from the Local Pharmaceutical Committee for the use of the premises and staff. It was agreed that it should go to the C. W. Young Fund.

The Council agreed that, subject to the submission of certain documents by the applicant, the president and secretary should be empowered to grant an application for registration in Northern Ireland under a reciprocal arrangement.

A proposal of MR. H. G. CAMPBELL, seconded by MR. W. P. EWART, that the House Committee should consider preliminary plans drawn up for the erection of a 1,500 sq. ft. lecture hall on the Society's premises at a cost of between £8,000 and £9,000, together with other proposals for the use of the premises, was approved.

Presenting the Finance Committee report, THE PRESIDENT said an analysis was to be made of examination costs. The report, which contained a recommendation for the payment of accounts totalling £1,048, was adopted on the proposal of Mr. Ewart, seconded by Mr. Campbell.

Presenting the report from the Board of examiners on the Society's June 1961 examinations, THE SECRETARY said there had been four examinations: Parts I, II under the old

syllabus, Part II A (first year of new syllabus) and Part II B (second year of new syllabus). In the Part I examination there had been thirty-three candidates of whom nineteen passed, eleven failed, one was referred in biology, one in chemistry and one in physics.

Recommendations had been made about courses and one candidate attempting the examination for the third time and who had not passed was to be allowed a fourth attempt after reattending a full-time course. Seven other students who did not pass were required to reattend a full-time course. Six referred students were required to attend revision courses and in the case of another candidate it was recommended that he should be advised to seek a career outside pharmacy.

In the Part II (old syllabus) examination there were sixty-four candidates, of whom eleven passed, thirty-three failed, fifteen were referred in pharmaceuticals, one in pharmacognosy and three in physiology. There were no recommendations about the reattendance of courses.

In the Part II Part A examination there were eighteen candidates of whom seven passed, five failed, four were referred in pharmaceuticals, two in pharmacognosy, two in chemistry and two in physiology. There was a recommendation that those referred in one subject should reattend the course in that subject.

In the Part II Part B examination there were nine candidates of whom three passed, one failed, three were referred in pharmaceuticals II, one in pharmacology and one in pharmaceutical chemistry II.

NEW BOOKS

Encyclopædia of Waxes Vol 2 (Part 1)

L. IVANOVSKY, F.R.I.C., M.I.Chem.E., *Verlag für Chemische Industrie H. Ziolkowsky, K.G.*, Augsburg, Germany. 6½ × 5 in. Pp. 486. D.M. 33.

THE second volume of the *Encyclopædia of Waxes* deals in its first part, recently published, with the analysis of waxes and allied products (adhesives, fats, oils, soaps, etc.). It covers among other things, world standards, and the mechanical, physical, and thermal properties of waxes, and suggests analytical methods of testing, etc. The standards for waxes in the following ten countries are described: The Argentine, Canada, Germany, Great Britain, Israel, Mexico, New Zealand, Portugal, South Africa and United States; approximately 1,300 standards being listed. Like the first volume which appeared about six years ago the text is in German. Two more parts to Volume 2 are promised, as are Volumes 3 and 4.

JOHN ATTFIELD

1835 — 1911

His influence on education

JOHN K. CRELLIN



THE manifold accomplishments¹ of John Attfield (director and professor of practical chemistry at the Pharmaceutical Society's School, 1862-96), were behind the opening remarks of an obituary notice by the American pharmacist J. P. Remington:—

ON March 18, 1911, there passed away one of the strongest men of the Victorian Era, who had given the greatest part of his life in improving the profession of pharmacy by his chemical knowledge, and his devotion to the best interests of the sciences which he loved, and of which he was generally acclaimed a master.²

Today, when remembering Attfield fifty years later, it will perhaps be of greatest interest to consider his most important rôle, that of an educator. Though Attfield lived at a time when pharmaceutical education was passing through severer growing pains than now, ideas and views on education are always relevant to such a perennial topic.

From a look at the results of his life's work, Attfield's attitudes to education may be summed up as follows. Science education has two main rôles. First, academic education: to promote research and to fit students to always be of value to the community; and second, popular education: to disseminate science, a preliminary step in utilising the results of research. (That was following Bacon's dictum, quoted by Attfield in his chemistry textbook, that the knowledge obtained from science was to be employed "for the use and benefit of mankind.") Attfield's tackling of those ideas provides a fascinating chapter in British pharmacy.

Attfield's pharmaceutical chemistry textbook, being his most important contribution to pharmacy and pharmaceutical

education, is worthy of discussion in detail. The first of nineteen editions, the last of which appeared in 1906, came at a time (1867, see fig. 1), when the teaching of chemistry had finally divorced itself from pharmacy and medicine and more and more emphasis was being placed on practical work, both in new institutions for teaching chemistry and in the medical schools. At the latter schools the change was due to the nineteenth-century rise of laboratory medicine and the increasing at-

tention paid to chemistry. The resulting need for chemistry books was duly met, especially in the last part of the century, with increasing numbers on all aspects of the subject, pure, analytical and pharmaceutical chemistry. They were mostly continental, with the best translated into English. Attfield's English text, with its emphasis on pharmacy and practical work, was therefore instantly of value and readily gained wide popularity.

Popular Features

In addition to its timely appearance, the popularity was due to two other features of the book that endeared it to students and teachers. Those features—characters of all good textbooks—will be considered in turn; the lucid style and ordered arrangement; and a ready inclusion of new material. Indeed a valuable aspect of Attfield's work was his ready application, wherever possible, of chemistry to pharmacy. The first edition was

essentially a handbook of Practical Chemistry . . . intended as a laboratory guide for medical and pharmaceutical students, and as an aid to the study of pharmaceutical chemistry by the pupils of medical practitioners, and chemists and druggists.³

The clarity of the experimental detail (even with the absence of diagrams, which were not included till the sixth edition), was an instant success. Equally popular, however, were the comments on theory, which were considerably enlarged in the second edition (1869) so that the aim of the book was to be

a systematic exponent of the general principles of Chemistry. [And] written for students of medicine and pharmacy . . . and as a reading book for gentlemen having no opportunities of attending lectures or performing experiments, and as a handbook for college pupils.⁴

The lay-out of the book was the result of much thought.

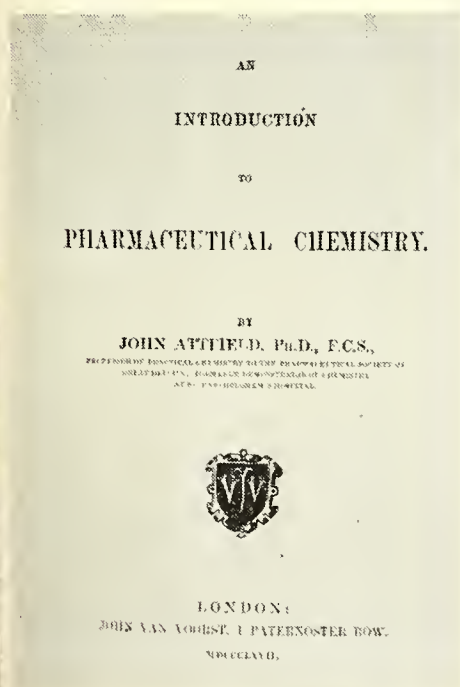
Two features were the

separation of reactions having synthetical from those possessing analytical interest, and the addition of a large number of new reactions of the former class; the chemistry of the Pharmacopœia is thus brought prominently into view [this was much emphasised at the time], while the art of analysis is made clear and concise.⁵

A further novelty was that the reader was introduced to the general reactions and properties of the non-metallic elements (some familiarity with metallic elements being assumed), before arriving at a consideration of "chemical philosophy" or theory. That was followed by a more detailed description of metallic and non-metallic compounds, analysis, chemical and practical toxicology, etc.

One great advantage of [this] mode of treatment is that difficulties of nomenclature, notation, chemical constitution, and even those arising from conventionality of language, are explained as they arise, instead of being massed under the head of "Introductory Chapters," "Preliminary Considerations," or "General Remarks" which are not unfrequently too difficult to be understood by a beginner, too voluminous to be remembered except by the aid of subsequent lessons, and are consequently the cause of much trouble and confusion.⁶

That approach, rarely followed in chemistry textbooks, may have been stimulated by Fownes's "A Manual of



Title page of the first edition of Attfield's "Chemistry."

Elementary Chemistry" (first edition, 1844), where again the chemistry of non-metallic elements was considered before the "general principles of chemical philosophy"—a book largely superseded, in medicine and pharmacy, by Attfield's manual. Though Fownes's work had less emphasis on practical work and none on official preparations, it was clear and concise; Fownes also had lectured in medical schools and at the Pharmaceutical Society's school, and after 1849 the book was edited by the celebrated H. Bence Jones, M.D.—all factors giving it a place in medical circles.

Another highlight in presentation of Attfield's book that must finally be noted was its colloquial style and helpful attitude towards the student. The author listed required apparatus and chemicals, with prices—a reflection on the then educational facilities. And he well realised that the scope of the subject could be overwhelming and that sympathetic direction was needed. In the second edition (1869) he introduced "advice to learners regarding method of study," in which he pin-pointed the relevant parts of the book for particular examinations. But, as will be seen below, Attfield at that time realised the defects of compulsory examination as an essential of becoming registered (1868), and the section was deleted, to be followed in the sixth and succeeding editions by "advice to students," a note concerning the objects of studying and learning.

The book was deservedly popular with students, yet equally important was its popularity with teachers. Each edition was carefully revised, and there was a ready inclusion of new chemical knowledge. The metric system, which Attfield felt was "doubtless . . . destined to supersede all others,"⁷ was early incorporated into the work. But it was nomenclature that was the major pioneering task:

Chemical nomenclature has been modernised to the extent of defining the alkaline and earthy salts as those of potassium, sodium, ammonium, barium, calcium, magnesium, and aluminium instead of potash, soda, ammonia, barytra, lime, magnesia, and alumina. The author confidently believes that this change, extensively adopted by scientific men, will be accepted and become popular with pharmaceutical chemists, as it is a step in the direction of consistency, simplicity and truth.⁸

Attfield stressed those views time and time again, in private discussion and in various articles, until the revised nomenclature prevailed, overcoming the scepticism, summed up in the words of a reviewer of the first edition, about

hastily adopting theories, and especially systems, which are not yet fully developed, and which, if applied in pharmacy, by inducing alterations in the names of chemical substances would be calculated to produce much inconvenience and possibly confusion.⁹

An idea of the attention paid to detail (another strong point) may be gained from a review of the ninth edition (1881), which remarked

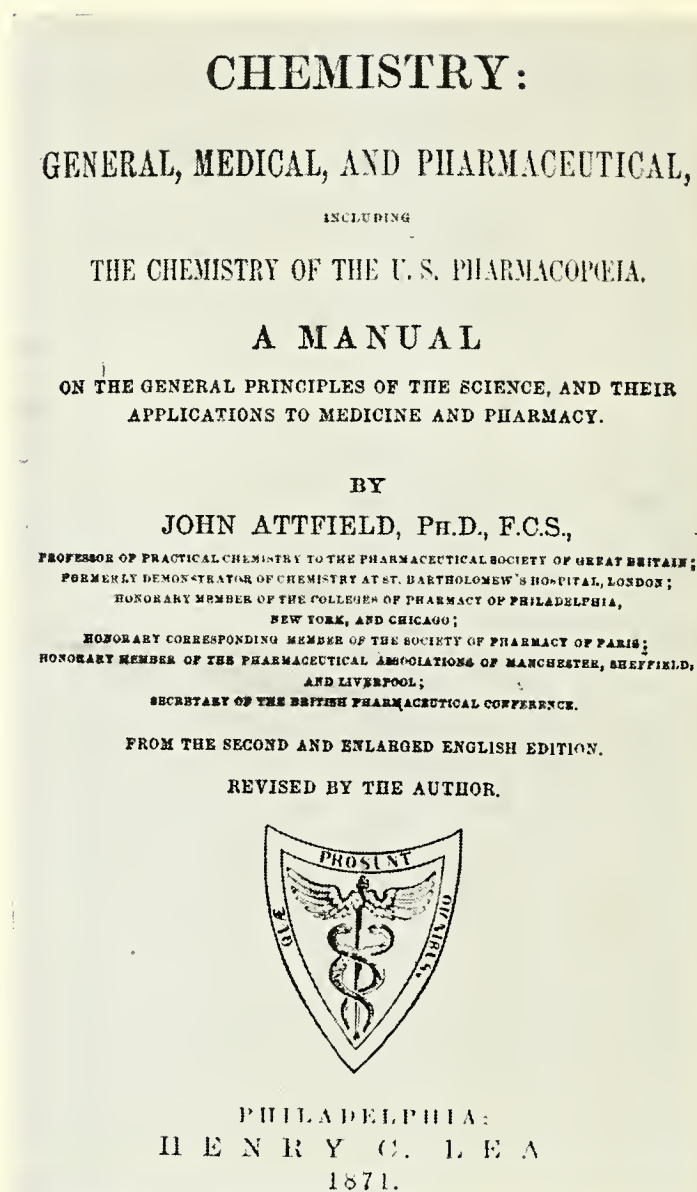
how well Professor Attfield has kept his book abreast of the times is evidenced by the fact that it is as much a favourite among our go-a-head cousins across the Atlantic as it is with students in this country.¹⁰

It went on to example the inclusion of

the latest work of Wright on the aconite alkaloids, of Ladenburg on the so-called "tropines" of Thresh on capsaicine, of Jobst and Hesse and Oberlin and Schlagdenhauffen on the dita alkaloids. Dr. Senier's tables for the identification of the principal alkaloids, acids, etc.

The Manual in America

The reviewer's comment on the book's popularity in America reflected its nine American editions. The pharmaceutical relations between Britain and America have always been very much give-and-take, and Attfield's "Chemistry" provided a tangible influence and link in pharmacy between the two countries. That was despite French and German scientific works being more popular than British, though at the Philadelphia College of Pharmacy Attfield's text was certainly preceded by Fownes's.¹¹ A letter written by William Proctor, jun., to Attfield,¹² gives a glimpse of Attfield's influence on American education, besides discussing the introduction of his book there (see fig. 2). Proctor, after remarking that Attfield's



Title page of the American edition of Attfield's manual. It enjoyed considerable popularity.

suggestions were duly considered by the committee appointed, to take measures to commence our practical school, went on to say

it is with much pleasure that I learn that "Attfield's Chemistry" is just about to issue from the press of Mr. Lea. It has been delayed about two months by the unfortunate illness with typhoid fever by our Professor Bridges [the American editor of Fownes' Manual] who engaged to see the sheets through the press and was stricken down in the task. In May 1870 Mr. Ebert of Chicago, Mr. Markoe of Boston and myself called upon Mr. H. C. Lea in regard to the publication of your book. Both the gentlemen named said that Chicago and Boston wanted it badly and I suggested that our College would want a text-book the coming winter (1870) and I believe it was this influence that caused him to reconsider his opinion about the feasibility of its publication as a business matter. I have not yet seen the sheets but hope to when he book is out and see what you have done to adopt it to the United States.

Views on Academic Education

Attfield's influence as a teacher was profound. During his thirty-four years at the Society's school, 2,367 students came under his teaching. That undoubtedly gave him the understanding of students so well reflected in his textbook, embracing an awareness that, for success, a strong directing hand was required. Attfield desired a level-headed and usable education so that the

knowledge be utilized not only in the way of personal advantage, but in experimental researches on subjects connec-

ted with pharmacy. The discovery and publication of a new truth, however small, is the best means whereby to aid in advancing the calling in which we may be engaged, benefit our fellow creatures, and glorify the creator of all things.¹³

In 1868 compulsory examination induced many students to cram, against which tendency Attfield quickly took up the cudgel. He deleted his "advice to learners regarding method of study" from the third edition (1871) but opened in the sixth edition (1875) a new note, "advice to students," with the words

It is unnecessary to advise you to avoid studying merely by way of "preparation for examination." You will not so mistake the means for the end. You are studying to fit yourself for your position in the world. . . .

More influential were his privately spread views, lectures and articles. In an outspoken address on pharmaceutical education to the British Pharmaceutical Conference of 1872 he said, after reviewing the period up to 1868:—

prior to 1868, the average period of study of each pupil in the laboratory of your national School of Pharmacy was from four to five full months, each student working daily from eight or nine o'clock till five; since 1868 it has been a little over two months. Till 1868, the professor of practical chemistry in the school succeeded in teaching all students chemistry; after 1868 the majority had shown disinclination to learn anything beyond certain facts regarding the "definite chemical bodies of the pharmacopœia." But worse than all this, the place which every will-wisher of pharmacy expected to see occupied by compulsory pharmaceutical education is filled by the insidious usurper CRAM.¹⁴

Attfield next painted a deplorable picture of education at the time and provoked much thought and correspondence.

The situation improved but slowly, and in 1880 he circulated privately, to leaders of pharmacy, "A Pamphlet on the Relation to Each Other of Education and Examination especially with Regard to Pharmacy in Great Britain" (a second edition with various commenting letters was given general circulation in 1882). Again his wish was

that sound pharmaceutical education and the pharmaceutical examination should be fitted or adapted to each other . . . for the welfare of pharmacists, so far as that is consistent with the welfare of the public.¹⁵

He reiterated that cramming, with consequent superficial education, was a reflex reaction of the examination system, and then put forward, at length, suggestions for a re-establishment of close relationship between the Pharmaceutical Society's sound system of education and the system of examination [which] is even of itself most desirable and important. But as a means to an end such renewal of concord has still greater value for the outcome must be such an improvement of the condition and position of the pharmacist that pharmacy will be a handmaid of medicine and the trusty servant of the public.¹⁶

Services to Popular Education

The last phrase, "the trusty servant of the public," was written at a time when there was much reform in living conditions and a popularisation of science. To Attfield the latter was a task for which pharmacy should be fitted, and one in which he himself did so much. A few instances will be noted.

As the London analyst to the fire insurance offices, he wrote four letters to *The Times* (afterwards published as a pamphlet: "The Origin, Extension and Prevention of Fires and the Relation of Mineral and other Materials to Fire"). One letter of interest (October 23, 1871), was on the Chicago fire of 1871. The graphic opening sentences—"The awful conflagration of Chicago was started by a boy in a cowshed. He took with him a mineral-oil lamp which the cow kicked over"—were used to underline the similar dangers in this country. Attfield's sympathy was also aroused, and Urdang, writing of Anglo-American pharmaceutical relations,¹⁷ detailed Attfield's contributions in helping Chicago pharmacy to set itself on its feet after the fire.

A later work of Attfield's was his "Waters and Water Supplies and Unfermented Beverages" (1884), published under the auspices of the International Health Exhibition. The publication was:—

intended to furnish those whose interest in such beverages is more than superficial with information which is to them not generally easy of access, or is intelligible when obtained. We [reviewer in *The Pharmaceutical Journal*] congratulate the author on the simple and lucid manner in which he has placed before the unscientific reader the leading chemical and physical properties of water and scientific explanation of certain phenomena connected therewith.¹⁸

Such praise for Attfield's clarity of exposition was not isolated. Another example is to be found in the *Watford Observer* for July 9, 1888. This time it was over his views on the prevention of free air in sewers. The *Observer* felt

Watford [was] to be congratulated that it had been enabled through the learning and clear thought of Professor Attfield, to be the first in making a distinct advance in applied sanitary science.

Other instances of his public services could be cited, as could many other of Attfield's ideas and writings on education. But they would only amplify the already considered views; views born from a ready understanding of the needs of his fellow men. An understanding and desire to help, so well seen in his monumental "Chemistry" and his attitudes to academic and popular education. It will suffice, in conclusion, to finish with the following quotation from his address, "The Relation of Pharmacy to the State," summing up his dominant concern about pharmacy education—to give to the student a broad-minded education so that he is able to work in and be one of the community.

Let him [the pharmacist] never forget, in short, that in pharmacy, as in every other walk of life, the highest self-interest is to be found in the forgetting of self. The requirements of the public have called him into existence, the requirements of the public maintain him in his position, only in proportion as he meets the requirements of the public will be promote his own interests or raise either himself or his calling.¹⁹

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ACKNOWLEDGEMENT.—The author writes: I am grateful to the library of the Pharmaceutical Society of Great Britain for ready access to the nineteen editions of Attfield's "Chemistry."

100 YEARS AGO

FOUNDING AN INSTITUTION

From the C. & D., July 15, 1861.

ANY man with time, money, energy, and position can found an institution. He can obtain a charter; he can frame by-laws; he can secure members; he can start a special journal to report progress, and he can build, or adapt a nest for his hopeful offspring. He can do all this, and more; but there is one thing beyond his power. If this institution is not practical in its objects and ends; liberal in its management, and if the advantages he offers to members are not a little above the level of subscriptions and the trouble of qualifying for membership, he cannot make the institution pay. He may . . . even die before the melancholy truth is forced upon him; but some committee, trustees, or hereditary managers will sooner or later have to stare it in the face.

SCOPE, DEPTH, ADAPTABILITY

Traditions of pharmaceutical education at Manchester University.

WE have singled out the pharmacy department of the University of Manchester for special attention in this year's educational number. Not for its modernity (the department was founded in 1883), nor for its architecture, nor, necessarily, for the eminence of its alumni, but rather—at a time when standards of pharmaceutical education are receiving considerable attention—to record and pay tribute to the excellence of those standards so vigorously and proudly maintained at Manchester.

By the careful selection of students at intake, insistence on a fundamental grounding in the subjects to be studied, tuition by experts highly qualified in their own fields, and interpenetration of faculties, it is the belief of the school that their students will escape, in the words of Professor Bullock (who is the head of the department), “a superficial gloss of information.” Rather it is hoped that, with the angular corners of narrow specialisation rubbed off, their graduates will emerge with the sort of background, at once sufficiently broad yet profound, that makes for a versatile adaptability and, which, because of the emphasis on a sound grasp of fundamentals, will produce students more able to assimilate and understand the new and continuous advances in their own subject and those subjects related to it.

That tradition of academic soundness is, like all traditions, an historical as well as a contemporary phenomenon and, to understand it better, it is worth while briefly considering the important part played by Manchester from an early date in establishing an organised system of formal pharmaceutical education.

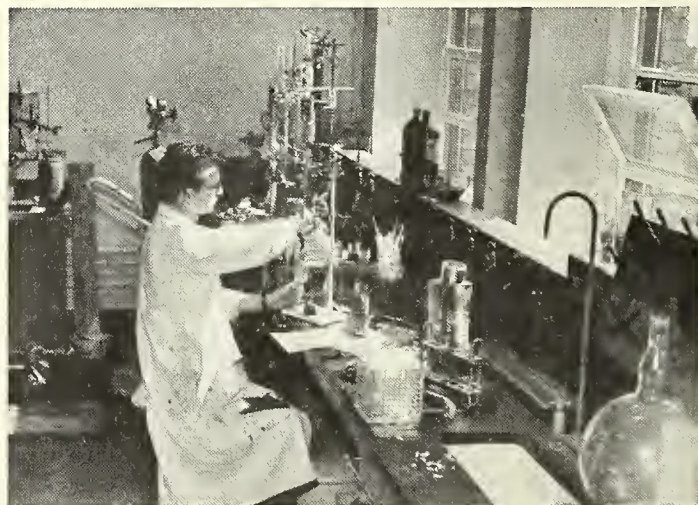
Historical

We find that as long ago as 1824 lecture courses in pharmaceutical chemistry were being given in Manchester by John Dalton at the old Pine Street Medical School (a certificate, signed by Dalton and dated 1826, certifying the attendance of a Mr. William Cluley at his lectures is today carefully preserved in Professor Bullock's office). Thus Dalton—a chemist of international repute—was also the first lecturer in pharmaceutical chemistry in the first completely equipped medical school in the provinces. Later, in connection with the foundation of the Pharmaceutical Society, Dalton was, very appropriately, honoured by being elected an honorary member of the Society.

Pine Street Medical School was eventually amalgamated with Owens College, Manchester, in 1872, where a pharmaceutical course had been established “by the hearty co-operation of the principal and trustees” as early as 1860, mainly as a result of the efforts of the Manchester Chemists' and Druggists' Association (formed in the same year). Owens College, named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester School of Medicine was united with it in 1872. The Charter of 1880, by which the Victoria University was founded, established a federal constitution and made Owens a constituent college of the University; in 1884

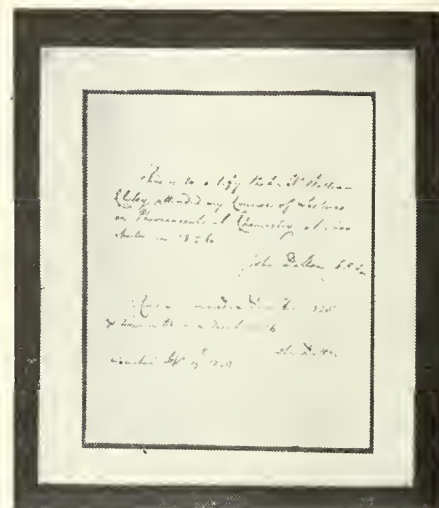
University College, Liverpool, and in 1887 Yorkshire College, Leeds, were admitted as constituent colleges. A new Charter was granted in 1903, reconstituting the University under the name of the Victoria University of Manchester and freeing it from liability to admit or remain in association with any college other than Owens, and in 1904 an Act was passed for the incorporation of Owens College with the University. In 1905, on the establishment of the Faculty of Technology, the work of university standard at the Manchester Municipal School (later College) of Technology was included in the University. Under a charter granted in 1955 the College of Technology became in 1956 an independent institution under the title of the Manchester College of Science and Technology, but the relationship between the College and the University as regards work of university standard continues unchanged.

The Manchester Branch of the Pharmaceutical Society was founded in 1841 and in the following year organised a conversazione at which James Woolley (a name still well



The Department has five full-time and a variable number of teaching research students preparing for higher qualifications. The illustration in the title is of a certificate bearing the signature of John Dalton. It was awarded in 1826 for attendance at the pharmaceutical chemistry course of the University.

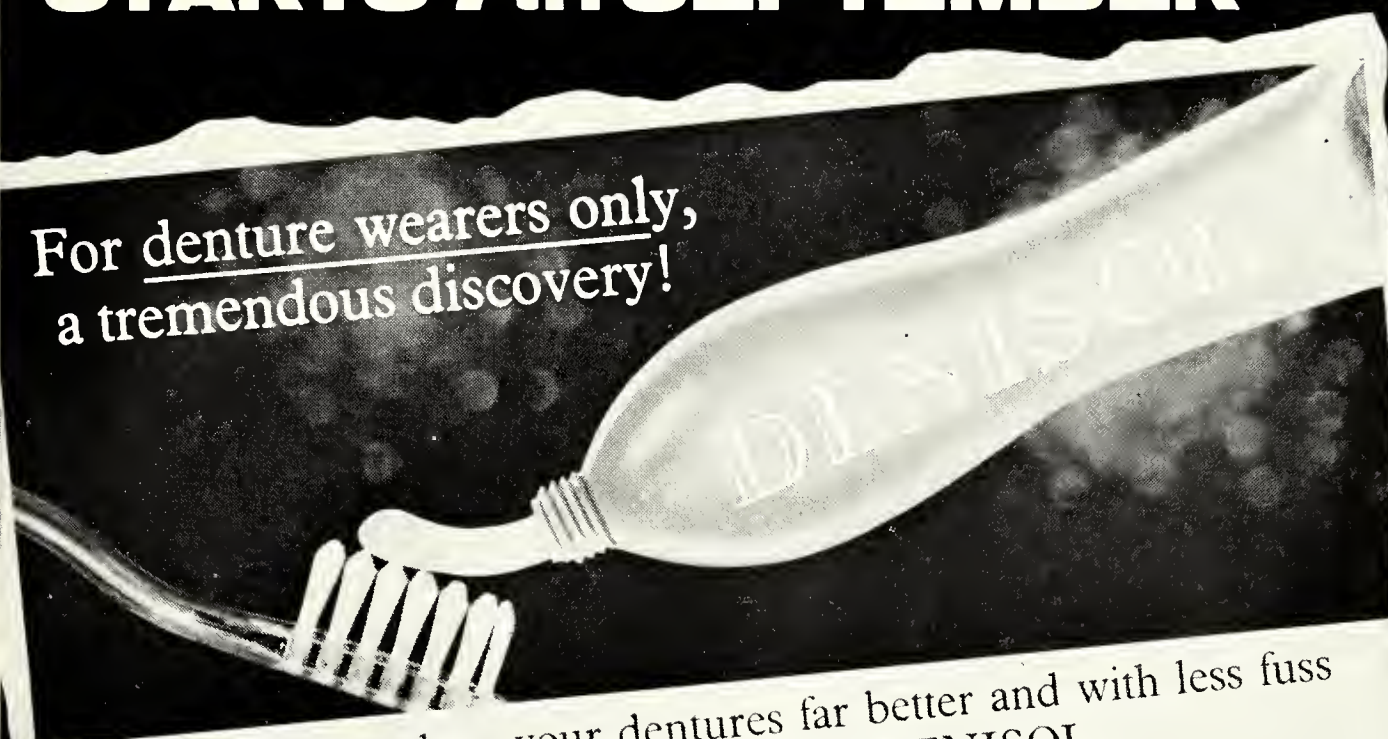
enough known in pharmaceutical circles today) read a paper entitled “The Present State of Pharmacy.” In it he drew attention to the dangers the public suffered by reason of defective training of chemists, and advocated the desirability of attaching “chairs or professorships” of pharmaceutical chemistry to all existing schools of medicine. The lectures and classes, he suggested, should be specially framed to meet the needs of the “practical pharmacopolist” who needed “something quite different” from medical students. Woolley, George Danson and Thomas Standring were constituted a subcommittee to secure the establishment of a school of pharmacy. A course of twelve lectures on phar-



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More people than ever like to wear their dentures
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Daily Mail.....7th Sept.

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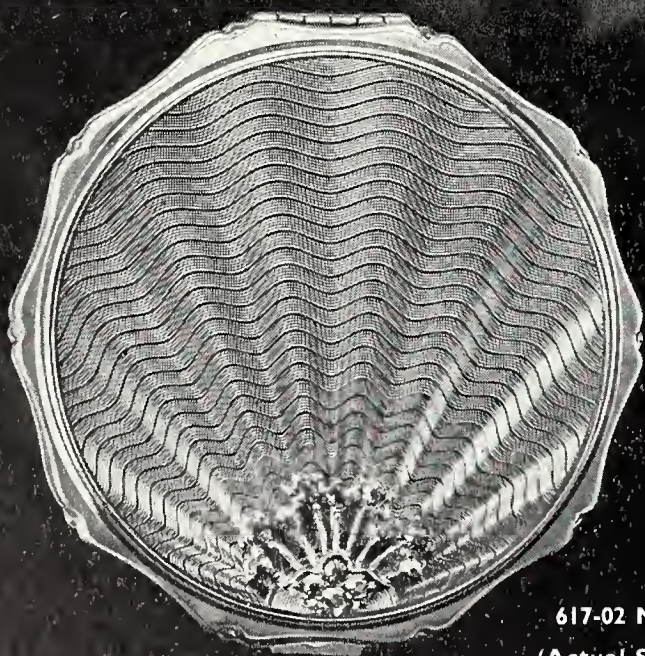
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CUMULATIVE LIST OF AMENDMENTS TO THE C.&D.
Quarterly Price List

JUNE 1

	No. 5 (247 Chanel)			
	parfum de toilette			
	atomiser	45	0	
	refill	27	6	
Delete	spray Cologne .. 300			
	Actina (8 Actina)			
	lens hood alloy 22-42 mm	2	10ea	8ea 4 11
	Adcortyl-A (1176 Squibb)			
	ophthalmic ointment 3.5 gm	4	6ea	6 9 TS
	with Graneodin 3.5 gm	5	0ea	7 6 TS
	Adetate (837 MSD) 16 oz	9	0ea	ts4B
Delete	Alasil (1303 Wander)			
	juvenile all sizes			
Delete	Alficetyn (34 A&H)			
	cream	1	oz	
	for eye drops	42	0	5 3 TS
	All Day (451 F&J)			
	deodorant stick ..	15	0	7 6 2 6
	Allenbury's (34 A&H)			
	pastilles glycerin and blackcurrant	2	oz	17 3 ..
	1 lb	103	0 ..	11 6
	1 lb			
Delete	diet			
	Allercur (1107 SAGB)			
	(distributors 973 Pharmethicals)			
	ointment 500 gm ..	30	0ea	45 0 ts7
Delete	300 gm			
	All Out (931 PDC)			
	tube dispenser			6
	Alocol (1303 Wander)			
Delete	tablets 500 & 1000			
	Amargyl (971 PSMB)			
	tablets	50	68 0 ..	8 6 ts1s4A
	500	620	0 ..	77 6 ts1s4A
	Aminacyl (1303 Wander)			
	sodium PAS powder 500 gm	204	0 ..	25 6
	1000 gm	354	0 ..	44 3
Delete	sodium PAS powder 100 gm & 250 gm			
Delete	cachets 1.5 gm 250			
Delete	tablets 0.4 gm all sizes			
	0.5 gm 100, 250 & 1000			
	0.75 gm 100, 250 & 1000			
Delete	calcium PAS powder 100 gm, 250 gm & 1000 gm			
Delete	cachets 1.5 gm 250			
Delete	tablets 0.5 gm 100, 250 & 1000			
	0.75 gm 250 & 1000			
	Amphacil (971 PSMB)			
	tablets	50	68 0 ..	8 6 ts4B
	500	600	0 ..	75 0 ts4B
Delete	Amyl nitrite (787 Macfarlan) all sizes			
	Anaflex (503G)			
	cream tube .. 30 gm	56	0 ..	
	paste tube .. 20 gm	43	0 ..	
	powder tin .. 30 gm	56	0 ..	
	Anaprotin (1258 UP)			
	tablets 25 mgm .. 20	11	0ea	16 6
	250	120	0ea	180 0
	500	225	0ea	
	Andre Philippe (48 AP)			
	bath crystals .. 21	15	0	7 6 2 6
	22	35	6	17 9 5 11
	perfume story book .. X2	15	0	7 6 2 6
	wave set jar .. 23	7	6	3 9 1 3
	bath cubes six .. 16	9	0	4 6 1 6
Delete	brilliantine spray .. A7			
Delete	complexion milk .. 13			
Delete	dimple Scotch heather .. 7			
Delete	Devon violet .. 7			
Delete	lanolin hand cream .. 12			
	men's cream shampoo sachet			
	105	3	4	10 6
Delete	perfume story book .. X1			
Delete	shampoo 4 oz .. 22			
	spray lacquer .. 8	11	6	5 9 2 0
	refill .. 9	7	0	3 6 1 3
Delete	suntan spray .. A9			
	Angel Face (256 CPL)			
	cream powder case ..	23	8	11 10 3 9
	compact	26	10	13 5 4 3
	refill	17	4	8 8 2 9
	liquid make-up tube	17	4	8 8 2 9
	bottle	23	8	11 10 3 9
	Anita (473 FJ)			
	coconut-oil shampoo ..	13	8	3 5 2 0
	colorised hair lacquer	27	0	13 6 4 6
	refill ..	18	0	9 0 3 0

	crystal clear setting			
	lotion			
	Antidol (757 Lewis)	12	0	6 0 2 0
	tablets	20	25 0 ..	3 1 1
	100	108	0 ..	13 6
	500	520	0 ..	65 0
Delete	Antoin (37 Allied) dp 1000			
	Antrypol BP (649ICI) not BPC			
Delete	Arcancil (120 BGP) all products			
Insert	Arcancil (792 Malynn)			
	eye-lash grower	777	75 0	37 6 12 6
	eye shadow ..	666	36 0	18 0 6 0
	pearlised	666	45 0	22 6 7 6
	make-up pencils	555	20 0	10 0 3 6
	frosted	555	30 0	18 0 5 0
	mascara trial size	220	27 0	13 6 4 6
	large	335	45 0	22 6 7 6
	refill ..	335R	27 0	13 6 4 6
	cream	111	75 0	37 6 12 6
	refill	111R	27 0	13 6 4 6
	remover	260	27 0	13 6 4 6
	mascara with			
	eye-lash grower	444	75 0	37 6 12 6
	refill	444R	27 0	13 6 4 6
	Arrowtabs (62A)			
	Arrowbrush lipstick style			5 11
	Arrowmaster anti-static			8 6
	Arrowgard sleeves only	24		5 6
	Arrowmounts ..	90		1 0
	250			2 6
Delete	Artoral (908 Oatine)			
Insert	Artoral (1282 VB)			

THIS WEEK'S CHANGES
AT END OF LIST

	Artra (1330 WL)			
	skin tone cream .. 2 oz	60	0	30 0 10 0
	Aspro (894 Nicholas)			
	3 doz	45	2	11 3 1 11
		26	9	6 8 3 5
	Astral (509 Gibbs)			
	cream	9	9	4 9 1 6
		16	0	7 9 2 6
		28	6	13 10 4 6
	soap toilet	9	0	2 2 1 1
	bath	13	0	3 2 1 7
	Ayrton (78 AS&Co.)			
	adrenaline cream ..	18	0 ..	2 6
	cream of calamine with			
	benzocaine .. 4 oz	12	0 ..	1 6
	pasta mag sulph .. 1 oz	11	0 ..	
	2 oz	16	0 ..	
	4 oz			
Delete	pine tar shampoo			
Delete	sulphur and treacle			
Delete	Sundries			
	bed pans earthenware			
	small	17	6ea	
	medium	20	6ea	
	large	22	6ea	
	bed rest web back ..	26	8ea	
	bottle brushes carded	6	6 ..	
	loose	6	0 ..	
	hot water bottles			
	Ayrton	56	0 ..	7 0
	Ayrglo	65	0 ..	8 2
Delete	Comfy			
	syringes glass .. 1 oz	56	0 ..	
	2 oz	42	0 ..	
	thermal wool .. 1 oz	10	0	2 6
	1 oz	12	11	3 2 1
	1 1/2 oz	18	0	4 6
	2 oz	23	4	5 10
	thermometers baby ..			
	feedrite 1/2 min	54	0 ..	6 0
	Barkoff (232 Carter)			
	cough syrup .. 3 oz	14	6	3 7 2 6

Marzine in the national press



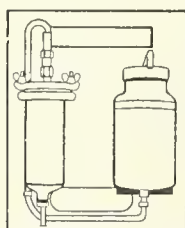
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Barquinol HC (502 Genatosan)	10 gm	40	0	..	5	0	TS
Basque (682 KCL)	continental suntan oil	33	0	16 1	5	6	
		53	0	25 10	8	9	
Bathjoys (1037 Reckitt)	bath cubes	2	6½	1 3	5		
Beaucaire (100 Beaucaire)	cleaning fluid	1 gall	360	0	..	39	0
Bell's (107 BH&L)	foot bath powder	..	5	2	1 3½	9	
	sunburn milk	.. 4 oz	21	0	10 6	4	0
Bemaco (142 BML)	tablets	10	23	4	5 8	3	5
	dp 25	..	51	3	..	..	..
	dp 100	..	120	0	..	..	..
	dp 1000	..	80	0ea	..	..	..
Bemasulph (142 BML)	tablets 25	..	45	0	..	5	7½
Benevit (588 H&H) tonic	..	28	6	7 0	3	9	
Betalax (714 Koray) 4 doz	..	22	6	5 7½	9		
Biligratin (1107 SAGB) single ampoules	..	..	..	..	..	..	..
Bilora (8 Actina) cameras	Bella super 44 and 46	..	..	..	119	9	
	66	..	..	..	127	0	
Bitevan (436 Evans)	ampoules 50 megm	10 mls	30	0	..	3	4
	100 megm	1 mil 6	30	0	..	3	4
	10 mls	1 mil 3	34	6	..	3	10
	1000 megm	10 mls	48	0	..	5	4
			144	0	..	16	0
Black Opal (1063 Rimmel)	cleansing milk	..	27	0	13 6	4	6
	cold cream	..	27	0	13 6	4	6
	Cologne	..	39	0	19 6	6	6
	deodorant roll-on	..	27	0	13 6	4	6
	spray	..	33	0	16 6	5	6
	face powder	..	27	0	13 6	4	6
	compressed	..	27	0	13 6	4	6
	hand cream	..	27	0	13 6	4	6
	lipstick	..	27	0	13 6	4	6
	liquid liner	..	27	0	13 6	4	6
	liquid make-up	..	27	0	13 6	4	6
	mascarola	..	33	0	16 6	5	6
	moisturising film	..	27	0	13 6	4	6
	nail lacquer	..	27	0	13 6	4	6
	pearlised	..	33	0	16 6	5	6
	perfume	..	39	0	19 6	6	6
	shadow stick	..	27	0	13 6	4	6
	skin food with vitamins	..	33	0	16 6	5	6
	talcum	..	33	0	16 6	5	6
	toning lotion	..	27	0	13 6	4	6
	vanity case	..	75	0	37 6	12	6
Boldo (232 Carter)	"Glen" slimming tablets	40	11	0	2 9	2	0
	100	22	0	5 6	4	0	
Bourjois (150 Bourjois)	baby soap (3)	.. .9169	17	4	4 4	2	6
Bralium (533 Grabowski)	lotion 0.5%	100 gm	8	0ea	2 0ea	14	0
	2%	100 gm	8	7ea	2 2ea	15	0
	3%	100 gm	9	1ea	2 3ea	16	0
	4%	100 gm	9	8ea	2 5ea	17	0
	5%	100 gm	10	4ea	2 7ea	18	0
Bromural (708 Knoll)	tablets	20	29	0	..	3	3 †s4B
	200	11	6ea	..	15	4	†s4B
Bronchipax (894 Nicholas) 72	..	..	..	..	..	..	..
Bronchovydin (802 Martindale) ½ oz	..	13	4	3 3	1	9	
Cafdis (1037 Reckitt)	.. 20	36	0	0 9	4	9	
Carbomucil (896 NPP)	.. 4 oz	40	0	..	4	3	
Carbro (232 Carter)	1 lb	..	..	..	..	..	..
Carovax (208 BW)	pasteurella vaccine (vct) 50cc	..	94	6	..	10	6
Casino (234 Cartwright)	overnight tan	..	30	0	15 0	5	0
	suntan spray	..	20	0	10 0	3	9
	supertan aerosol	..	34	0	17 0	5	9
Cataline (1101 Sangers)	..	40	0	10 0	5	3	
Cecil Wood (1345 CW)	chest and lung mixture	..	16	6	4 1½	2	3
	head powders	.. 16	25	0	6 3	3	3
	influenza powders	.. 9	15	0	3 9	2	0
	.. 25	39	0	9 9	4	10	
Celabs (727 Lane)	.. 36	16	1	4 0	2	3	
Cephos (104 BP)	powders 120	..	..	..	..	..	..
Chandau (116 Benton)	deodorant spray	..	18	0	9 0	3	6
	refill	..	15	0	7 6	2	6
	hair nets	.. doz	2	9	..	..	..
	hair lacquer spray	..	23	6	11 9	3	11
	..	14	0	7 0	2	4	
	Hi-Shine aerosol	..	39	0	19 6	6	6
Chantilly (Houbigant (1 Abbey)	perfume	105-38	..	..	..	..	..
Charabs (727 Lane)	..	105-91	..	..	..	..	..
Chardox (411 EGH)	..	149-18	..	..	..	..	..
Chardox (894 Nicholas)	..	36	16	1	4 0	7	6
Codis (1037 Reckitt)	..	8	10	10	2 7½	1	5 †
	..	20	21	0	5 1½	2	9 †
Colgate (280 CP)	shaving cream brushless tube	..	20	10	5 2	2	9
	..	..	30	4	7 6	4	0
	..	..	30	4	7 6	4	0
	lather tube	..	20	10	5 2	2	9
Cooltan (682 KCL)	polythene "traveller bottle"	..	30	3	14 7½	5	0
Cordex (1263 Upjohn)	tablets	100	7	0ea	..	..	TS
	..	500	27	0ea	..	..	TS
	forte	..	100	12	7ea	..	TS
	..	500	54	7ea	..	..	TS
Coronet (563 Hampshire)	hair lacquer	..	22	6	11 1	3	6
	hair styling spray	..	22	6	11 1	3	6
	aerosol	..	48	3	23 10	7	6
Cortelan (518 Glaxo)	eye ointment	..	3	gm	..	..	..
Cortril (969 Pfizer)	snuff capsules 15 mgm	5 and 25	..	..	..	..	..
Cortril (969 Pfizer)	topical ointment non-greasy	1% 200 gm and 2.5% 200 gm	..	..	..	..	..
Courtesy (337 Curtis)	cleansing cream	.. 8 oz	36	0	18 0	6	6
	lotion	.. 4 oz	15	0	7 6	3	3
Cremalgin (1320 WP)	.. 2 oz	37	6	9 4½	5	6	
Cremor Antisepticus (78 AS&Co)	1 lb	4	6ea	1 1½ea	..	..	..
Cremor Rusci Co (78 AS&Co)	1 lb	4	6ea	1 1½ea	..	..	..
Curraglen (232 Carter)	cough mixture	.. 3 oz	14	6	3 7½	2	6
Cynomel (1153 SKF) 25 megm 100	..	..	..	..	..	..	..
Dalozband (347 Dalmas)	zinc paste bandage	3½ x 6 yd. No. 2, 2X, 3, 4, 5, 6, 6X	..	28	6	..	3 4
	..	No. 20	..	29	6	..	3 6
Dapsodine (358 D&S)	intramammary tubes	12	231	0	..	27	6 †s4B
	syringes	.. 12	280	0	..	35	0 †s4B
Decadron (837 MSD)	injection vial 2 mls	..	21	0ea	..	31	6 TS
Decaspray (837 MSD)	aerosol	..	30	gm	8 0ea	12	0 TS
	..	50 mgm	15	0ea	..	22	6 TS
Delagar (493 Gambles)	..	..	..	..	..	..	..
Delaminoph (142 BML)	tablets 25	..	30	0	..	..	..
	100	..	100	0	..	..	..
	500	..	33	0ea	..	..	..
Delaminised (142 BML)	tablets 25	..	32	0	..	..	†s4A
	100	..	108	0	..	..	†s4A
	500	..	35	0ea	..	..	†s4A
Denclen (994 P&M)	..	6650	18	3	4 7	2	8
Dentiline (430 Eucryl)	denture cleaner	..	20	0	5 0	2	9
Dequadin (34 A&H)	paint 0.5% 28 mls	..	72	0	..	9	0
Dequalone-P (34 A&H) 15 gm	..	120	0	..	..	15	0 TS
Deriphyllin (221 Camden) all sizes	..	..	..	..	..	..	..
Dialubes (588 H & H)	.. C1	14	0	..	..	1	7
Didrex (1263 Upjohn)	tablets	..	50	9	0ea	..	s4B
	..	..	100	16	0ea	..	s4B
Dindevan (436 Evans)	tablets 10 mgm	.. 100	120	0	..	15	0
	..	500	468	0	..	58	6
	50 mgm	.. 25	66	0	..	8	3
	..	100	216	0	..	27	0
	1000	1404	0	..	..	175	6
Disprin (1037 Reckitt)	..	8	5	6	1 4	9	
	..	26	14	5	3 6	2	0
	foil	..	28	14	5	3 6	2 0
	..	50	24	0	5 10	3	4
	junior	..	16	5	6	1 4	9
Distampin (378 DCBL)	injectors	..	..	..	..	..	..
	Distaqueine 3 mls	.. 5	11	3ea	..	..	†TS
	Streptaqueine 4 mls	.. 5	10	0ea	..	..	TS
Distaval (378 DCBL)	suspension 60 mls	..	3	0ea	..	4	6 p1s4B



The Elgastat Pharmacist Model

FOR PURIFIED WATER B.P. FROM TAP — INSTANTLY AT NEGLIGIBLE COST

Please write for leaflet C.D. 110 giving effluent cost for your own area

DEIONISATION (ELGA) LIMITED, LANE END, BUCKINGHAMSHIRE



MEGGESON & CO. LTD., LONDON S.E.16

POTENT AND SAFE

	Lifeguard (894 Nicholas)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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	100	646	0	80	9
insufflation outfit ..	118	0	14	9
Palmolive (280 CP)							
shaving cream brushless tube	20	10	5	2	2	9	
	30	4	7	6	4	0	
jar	30	4	7	6	4	0	
lather tube	20	10	5	2	2	9	
	30	4	7	6	4	0	
jar	30	4	7	6	4	0	
Panok (142 BML)							
tablets ..	12	14	8	..	..	1	10
	100	72	0	..	..	9	0
	500	24	0ea	..	..	..	..
	1000	46	0ea	..	..	..	..
Parke-Davis (938 PD)							
shaving cream tube 1½ oz							
Parmacetyl (411 EGH)							
Parmacetyl (894 Nicholas)							
tablets ..	100	12	6ea	3	1½ea		
Pen (267 C&A)							
acriflavine and Clearlight	10	0	..	..	1	3	
iodine and mosquito ..	10	0	..	2	6	1	6
Penicillin (34 A&H)							
ointment ..	2 oz	18	0	..	..	2	3 TS
eye ointment strong							
solution tablets buffered							
Penicillin G (649 ICI)							
ointment ..	1 oz						
eye 2000 units /gm	1 dr						
Pepsodent (955 Pepsodent)							
toothbrush junior		10	6	..	..	1	3
Persil (325 Crosfields)							
large ..	24	40	7	..	..	1	11
big ..	18	45	0	..	..	2	10
Pertusa (147 Boots)	40 oz	96	0	..	..	12	0
Petron (1201 Supervite)							
universal atomizer ..		23	6	11	9	3	11
Phedros (837 MSD) all sizes							
Phenaglate (70 Aspro) capsules							
Phenergan (971 PSMB)							
tablets 10 mgm ..	25	18	0	..	..	2	3 †s7
	500	280	0	..	..	35	0 †s7
25 mgm ..	25	28	0	..	..	3	6 †s7
	500	440	0	..	..	55	0 †s7
Philishave (977 PE)							
standard volt model ..		74	6ea	18	2ea	117	6
Pholcodine (787 Macfarlan) linctus all sizes							
Photocrescenta (977 PE)							
enlarger lamps	75W	31	6	7	6	4	1½
	150W	39	9	9	0	5	2
Photolita (977 PE)							
photoflood lamps No. 1							
	275W	27	0	..	..	3	0
No. 2							
500W ..		67	6	..	..	7	6
reflector type SM ..		112	6	..	..	12	6
Pifco (983 Pifco)							
"Popular" shaver 1126		39	11ea	9	9ea	63	0
Pinaud (984 Pinaud)							
"Set-up" pre-shave							
lotion 120 ..		30	0	15	0	5	0
Plastabook (1247 TDC)							
first aid dressings 2½ doz		38	4	..	..	1	11
P.L.J. (103 BF) large ..		44	5	..	..	4	9
Polioomyelitis (969 Pfizer) vaccine							
ampoule 1 mill ..	1	48	0	..	..	5	4 TS
	6	270	0	..	..	30	0 TS
vial 10 mills ..		32	6ea	..	..	43	4 TS
Polkris (839 MGS)							
electric feeding bottle		20	0ea	5	0ea	35	0
Portia (1160 Solport)							
pumice stone ..		4	0	2	0		8
Potter & Moore (994 P&M)							
talcum powder puffer 191		27	0	13	6	4	6
P.R. (147 Boots) spray ..		4	3½ea	1	1ea	7	6
Predsol (518 Glaxo)							
lotion aerosol 0.125%							
30 mills ..		8	6ea	..	..	11	4 TS
Predsol-N (518 Glaxo)							
lotion aerosol 0.125%							
30 mills ..		9	0ea	..	..	12	0 TS
Primaquine (649 ICI)							
tablets ..	30	32	0	..	..	4	0
	1000	640	0	..	..	80	0
Primolut i.v. (1107 SAGB)							
(distributors 973 Pharmethicals)							
ampoules 1 mill ..	1	5	2ea	..	..	7	9
Pristacin (621 Horlicks)							
chewing gum ..	12	20	0	..	..	2	6
	144	216	0	..	..	27	0
Proneil (451 F&J)							
	154	0	38	6		22	6
Protamyl (971 PSMB)							
tablets ..	50	40	0	..	..	5	0 †s1s4A
	500	350	0	..	..	43	9 †s1s4A
Prothricin (837 MSD) 1 oz							
Punch and Judy (528 GM)							
toothpaste ..		14	5	3	7½	1	11

Quelques Fleurs (Houbigant (1 Abbey)							
perfume ..	104-91	..	..	..	..	15	0
soap (3) ..	142-25	..	..	..	..	7	6
talcum tln ..	149-17	..	..	..	..	3	9½ †
R.A.H.C. (1091 Rybar)	25 gm	26	0	6	6	3	9½ †
	1 lb	246	0	61	6	..	†
Rasprin (411 EGH)							
Rasprin (894 Nicholas)							
Raywarp (1033 Raywarp)							
Glamour Hoods							
all over lace ..	89	0	4	5½	11	6	
brushed nylon ..	89	0	4	5½	11	6	
printed ..	108	0	5	5	13	11	
pastel net ..	50	0	2	6	6	6	
starprint ..	69	0	3	5½	8	11	
weather hood							
all over lace ..	100	0	5	0	12	11	
ball rose print ..	84	6	4	3	10	11	
decora print ..	97	0	4	10	12	6	
pastel net ..	61	6	3	0	7	11	
star print ..	77	0	3	10	9	11	
R.B.C. (1091 Rybar)	25 gm	24	0	6	0	3	6 †
	1 lb	222	0	55	6	..	†
Red Heart (864 JM)							
dog food small 4 doz ..	33	0	..	..	..	10½	
large 2 doz ..	30	0	..	..	..	1	7
Regal (1340 WUD)							
half cream 24 x 16 oz	27	6	..	..	..	1	4
full cream 48 x 6 oz	27	6	..	..	..	8	
24 x 16 oz	27	6	..	..	..	1	4
Regula (980 Photopia)							
camera L. Prontor SVS R2	236	10ea	57	9ea	413	0	
LE ..	..	..	..	..	..	..	..
LK ..	..	..	..	..	..	..	..
leather case ..	R40	455	0ea	110	11ea	793	5
Olympia I ..	R31	32	8ea	8	0ea	57	0
Olympia II ..	R53	344	0ea	83	11ea	599	11
leather case ..	R50	458	10ea	111	8ea	799	11
	R51	34	2ea	8	3ea	59	6
Regulette (980 Photopia)							
camera Vario shutter R52	120	4ea	29	6ea	210	0	
Pronto shutter R44	148	10ea	36	3ea	259	6	
Remington (1044 RR)							
shaver auto-home ..						175	0
Rendells (1045 R)							
vaginal suppositories ..	30	0	7	6	4	1½	
Revlon (1052 Revlon)							
aquamarine shampoo 8 oz	65	3	32	7½	9	6	
Rexall (1053 Rexall)							
Gee's linctus 4 oz and 8 oz							
pastilles Gee's ..	11	0	..	..	..	†
zinc and castor oil cream 2 oz and 4 oz							
glycerine, lemon and honey with ipecac 4 oz and 8 oz							
Ribothron (837 MSD) all sizes							
Richardson's (1412 Jackel)							
Sweet Sue's sachets ..	15	0	7	4	2	6	
talc pad ..	29	6	14	5	4	11	
Rinstead (1311 Warrick) pastilles	17	0	4	3	2	6	
Robaxial (1071 Robins)							
tablets ..	50	120	0	30	0	17	6 s1s4B
	500	90	0ea	22	6ea	157	6 s1s4B
Robitussin (1071 Robins) no longer schedule							
Rollei-Magic (637 Hunter) camera							
with f/3.5 Xenar lens ..	..	..	..	..	1534	6	
ever-ready case ..	..	..	..	..	103	9	
Rotakin (8 Actina)							
profile tripod 1402 ..	..	..	..	..	175	0	
Royal Court Tintona (908 Oatine)							
Royal Court Tintona (1282 VB)							
Salubria (496 Garllsol)							
garlic juice BPC all sizes							
Himalayan brain food							
tablets & powder							
Himalayan nerve tonic							
tablets ..	50	40	0	10	0	6	0
	150	111	8	27	11	16	9
	250	173	4	43	4	26	0
	500	316	8	79	2	47	6
	1000	570	0	142	6	85	6
St. Leger (1304 TW)							
blades slotted (6) ..	5	9	1	5½	1	0	
(12) ..	10	6	2	7½	2	0	
Savlon (649 ICI)							
barrier cream 50 gm ..	17	0	4	3	2	6	
Scarle (588 H&H)							
herbal cigarettes ..	20	19	6	..	..	2	2
Scholl's (Dr.) (1108 SMC)							
Vitality support nylons							
pair ..	24	0ea	..	..	..	36	0
Nylastik thigh stockings pr.	35	6	..	..	..	53	3
nylon "Soft Grip" ..	35	6	..	..	..	53	3
"Super Sheer" ..	50	0	..	..	..	75	0
Sea and travel-sickness remedy (107 BH&L)							
Sedamyn (837 MSD) .. 4 oz							
Sedasma (142 BML)							
tablets ..	25	34	0	..	..	†s4A	
	100	110	0	..	..	†s4A	
	500	37	0ea	..	..	†s4A	
Selmo (588 H&H) biscuits							

WOPSEY

Kills wasps in the nest

BRONTAN

ideal protective
suntan cream

JOHN BELL

Sunburn

antiseptic
and emollient

Milk

Reliable products from a famous company JOHN BELL, HILLS & LUCAS LTD., LONDON, S.E.26

Sellers (104 BP)									
tablets small	15	0	3	9	1	11			
large	24	1	6	0	3	1			
24 rolls	113	1	28	3	8				
Shadeine (1128 Shadeine)									
golden brightener	2 oz	32	9	16	5	5	0		
hair tint	1 oz	32	9	16	5	5	0		
	2 oz	42	6	21	3	6	6		
Signal (509 Gibbs)									
tooth-paste		30	9	7	6	4	1		
Silkot (116 Benton)									
facials		15	0	7	6	2	6		
tan		33	0	16	6	5	6		
Simpkin's (1141 Simpkin)									
Koola fruits		4	6			6			
Siopel (649 ICI)									
cream	50 gm	32	0			4	0		
	500 gm	200	0			25	0		
	5 lb	56	0ea			84	0		
Sixty 6 (1188 Steiner)									
hair dressing tube		24	0	12	0	4	0		
Snowfire (563 Hampshire) shampoo									
Sofra-Tulle (1087 Roussel)									
dressings 4 x 4 in	10	54	0						
strip 4 x 10 in		54	0						
Soft Twink (955 Pepsodent)									
home permanent									
tweeny		14	9	7	0	2	5		
end curl		27	6	13	1	4	6		
large		43	7	20	8½	7	2		
Solcoseryl (499 Richter)									
ampoules 2 mls	6	27	8ea	6	11ea	48	5		
ointment	20 gm	3	8ea		11ea	6	5		
Solida Record (637 Hunter)									
camera		59	0ea	14	4ea	102	10		
E.R. case		16	8ea	4	1ea	29	1		
Soluthrin (837 MSD) 20 mls									
Solvuvone (378 DCBL)									
injection 5 x 1 mega		8	9ea			13	1½ TS		
10 x 5 mega		66	8ea			100	0 TS		
Sonergan (971 PSMB)									
tablets	50	54	0			6	9 †s4A		
	500	500	0			62	6 †s4A		
Son Fils et Lui (Lubin (1 Abbey)									
after shave	100					30	0		
mens Cologne	700					37	6		
Sorexa (1162 Sorex)									
warfarin bait	4 oz	10	0			1	3		
	28 lb	32	0ea			48	0		
Soventol (708 Knoll)									
jelly	20 gm	30	0			3	4		
tablets	20	36	0			4	0		
	200	25	6ea			34	0		
Soventol C (708 Knoll)									
dragees	20	36	0			4	0		
	200	25	6ea			34	0		
Spillers (1172 Spillers)									
shapes		10	8			1	1		
Winalot meal		10	8			1	1		
Wagalot		10	0			1	1		
		17	9			1	11		
Spontex (1174 Sponcel) cosmetic sponge									
Spratts (1175 SPL)									
mixed ovals		10	2			1	1		
		19	10			2	1		
ovals		10	2			1	1		
Spraydex (294 Copydex)									
liquid starch	8 oz	28	0			3	6		
refill	8 oz	20	0			2	6		
garden spray bottle	8 oz	23	6			2	11		
refill	8 oz	15	0			1	11		
mothproofer bottle	8 oz	39	0			4	11		
refill	8 oz	31	0			3	11		
		16	6	8	3	2	9		
Spray Magic (876 MP)									
Spungee (703 KD) sponge									
heart shaped perfumed		47	0	11	4	6	11		
S.T. 37 (837 MSD) all sizes									
Stag (Lorie of Los Angeles (1053 Rexall)									
after shave lotion		48	0	24	0	8	6		
after shower talc		48	0	24	0	8	6		
deodorant stick		48	0	24	0	8	6		
all gift packs									
pre-shave lotion		48	0	24	0	8	6		
Spin Top deodorant		48	0	24	0	8	6		
Stemcol (427 Esso)									
cough emulsion	6 oz	18	0	4	6	2	8		
	12 oz	29	0	9	3	4	3		
Stephens (1157 Stephens)									
Steradent (1037 Reckitt)									
'B' size		11	6	2	9½	1	6		
'A' size		19	11	4	10½	2	8		
Sterillium (946 PA)									
blanket sterilizing fluid 1 gal		20	6ea			27	4		
Steriloderm (1341 Willows)									
gel	60 gm	37	6	9	6	5	6		
Sterishave (438 ER)									
razor bath		22	0	5	6	3	4		
refills		18	0	4	6	2	8		
Stovo (8 Actina) cine screen									
white 40 x 40		48	4ea			72	6		
40 x 48		59	8ea			89	6		
48 x 48		70	0ea			105	0		
60 x 60		106	4ea			159	6		
beaded 24 x 18		33	0ea			49	6		
32 x 24		41	8ea			62	6		
32 x 32		45	8ea			68	6		
40 x 40		59	8ea			89	6		
48 x 40		66	4ea			99	6		
48 x 48		79	8ea			119	6		
60 x 60		131	8ea			197	6		
Strepolin (518 Glaxo)									
cartridges 1½ mls	10	12	6ea			18	9 TS		
vials 3 mls	10	12	6ea			18	9 TS		
Strypnon (221 Camden) all products									
Sucrets (837 MSD)									
Suleo (671 Jeyes) 80 oz									
Sulfasuxidine (837 MSD)									
powder	25 gm	5	0ea			7	6 †s4B		
	100 gm	18	0ea			27	0 †s4B		
	500 gm	82	6ea			123	9 †s4B		
tablets	100	9	2ea			13	9 †s4B		
	500	43	4ea			65	0 †s4B		
Sulfathalidine (837 MSD)									
powder	100 gm	13	0ea			19	6 †s4B		
	500 gm	59	0ea			88	6 †s4B		
tablets	100	6	8ea			10	0 †s4B		
	500	30	0ea			45	0 †s4B		
Sulphanilamide (649 ICI)									
BP sterilised 5 gm 10 x 100									
Super Plenamins (1053 Rexall)									
family pack	150	312	0			37	6		
junior									
Surama (908 Oatine)									
Surama (1282 VB)									
Surf (756 Lever) large	24	38	11			1	10		
jumbo	18	43	9			2	9		
Sustacol (972 Pharmax)									
tablets	20	5	0ea				†s4A		
Swandown (1218 HT)									
"Final Touch" deodorant									
	14	0	7	0		2	3		
Syntometrine (1098 Sandoz)									
ampoules 1 mil	6	48	0			6	0 s1		
	100	50	0ea			75	0 s1		
Syrup pulmonaria co. (78 AS&Co)									
8 oz		31	0	7	9		†		
dp 20 oz		5	0ea				†		
dp 80 oz		16	0ea				†		
Tabloid (208 BW)									
ergometrine									
maleate 0.5 mgm	25	82	0			10	3 †s1		
	100	284	0			35	6 †s1		
	500	1200	0			150	0 †s1		
Tetracyn (969 Pfizer)									
capsules 250 mgm	100	153	4ea			230	0 TS		
	1000	1480	6ea			2220	9 TS		
Thalazole (971 PSMB)									
suspension	4 oz	48	0			6	0 †s4B		
	40 oz	416	0			52	0 †s4B		
tablets 0.5 gm	100	80	0			10	0 †s4B		
	500	360	0			45	0 †s4B		
Therm-O-Lin (232 Carter) 3 oz									
	17	6	4	4½		2	9		
Thermos (1226 Thermos)									
vacuum jars	614					67	2		
	608					97	2		
	617					21	0		
	620					48	0		
	81					106	2		
	82					138	0		
	609					96	0		
jugs	58					17	11		
	58Q					23	6		
	34					43	2		
	34S					68	10		
	TV					107	3		
	54					45	0		
	54Q					47	9		
	45					50	6		
	45Q					57	11		
	29					87	0		
	29Q					103	9		
	70					103	5		
	52					145	2		
	52Q					171	5		
	231					141	8		
	231Q					168	0		
	70					105	8		
Therm-O-Wool (232 Carter)									
all plated									
small		13	6	3	4½	2	0		
large		22	3	5	7	3	6		
Throaties (64 AW)									
		3	10		11½		6		
Thymo Ephedrin (78 AS&Co)									
8 oz		40	0	10	0		†		
dp 20 oz		7	0ea				†		
dp 80 oz		23	6ea				†		
Tiger Oil (328 CCC)									
1 gall						28	0		

<i>Delete</i>	Tonergetic (221 Camden) all sizes								
	Toni (1242 Toni)								
	brush rollers	21	3	5	3½	6			
		6 doz		6 doz					
	Top Dog (1175 SPL)	2 doz	32	9	..	1	9		
		4 doz	35	3	..	11			
	Tramil (655 ICC)	..	31	6	..	3	6		
	Trancopal (97 Bayer)								
	tablets	15	7	0ea	1	9ea	12	3	
		60	19	0ea	4	9ea	33	3	
		300	84	0ea	21	0ea	147	0	
	Travia (761 Lilla-White)								
	compressed sanitary								
	towels	3	8	4	..	10½			
	Trescatyl (971 PSMB)								
	suppositories 500 mgm	5	110	0	..	13	9		
		50	960	0	..	120	0		
	powder 2 gm	..	70	0	..	8	9		
	tablets 250 mgm	..	50	36	8ea	55	0		
		250	178	4ea	..	267	6		
	Tretamine (649 ICI)								
	ampoules 20 mgm	..	5	800	0	..	100	0	†s4A
<i>Delete</i>	Triad (107 BH&L) cherry malt & oil								
	Tryptizol (837 MSD)								
	tablets 10 mgm	..	100	17	0ea	4	3ea	25	6
		500	82	6ea	20	7½ea	123	9	†s4B
	Turn Tan (Lorie of Los Angeles (1053 Rexall))								
	gift pack .. ..	..	90	0	45	0	15	0	
<i>Delete</i>	AX16 and AX17								
	Tusana (147 Boots)	..	40 oz	16	0ea	..	24	0	
		2 oz	14	0	3	6	2	3	
	Tussicon (1397 Ellanby)	..	4 oz	22	0	5	6	3	6
		8 oz	41	0	10	3	6	3	
<i>Delete</i>	Ultraphil (977 PE)								
<i>Delete</i>	Un-Dy (908 Oatine)								
<i>Insert</i>	Un-Dy (1282 VB)								
<i>Delete</i>	Urografin (1107SAGB) single ampoules								
	Vacco (1265 Vacco)								
	vacuum flask-de-luxe VLP	73	6	9	0	8	11		
	Valderma (343 DH) jar	1 oz	24	2	..	2	9		
		2 oz	39	4	..	4	6		
		4 oz	50	6	..	6	0		
	shaving cream lather..	19	2	4	9½	2	6		
	brushless	19	2	4	9½	2	6		
	Valette (373 DHL)								
	hair colour spray	..	76	0	..	9	6		
	Vallergan (971 PSMB)								
	ampoules 2 mils	..	10	150	0	..	18	9	†s4B
	suppositories 50 mgm	5	70	0	..	8	9	†s4B	
		75 mgm	5	90	0	..	11	3	†s4B
		100 mgm	5	110	0	..	13	9	†s4B
	syrup .. ..	..	4 oz	46	0	..	5	9	†s4B
	forte .. ..	..	4 oz	96	0	..	12	0	†s4B
	tablets .. ..	..	10 mgm	50	70	0	..	8	9
		500	620	0	..	77	6	†s4B	
	Valoid (208 BW)								
	suppositories ..	10	120	0	..	15	0	†	
	paediatric suppositories	10	96	0	..	12	0	†	
	Vaseline (256 CPL)								
	hair cream	jar	11	8	5	10	1	10	
		jar	18	0	9	0	2	10	
	dispenser refill	25	6	12	9	4	0		
	petroleum jelly yellow	tin	60	0	15	0	8		
		jar	105	0	26	3	1	2	
		jar	15	0	3	9	2	0	
		white tin	67	6	16	10½	9		
		jar	127	6	31	9	1	5	
		jar	18	9	4	8½	2	6	
		jar	33	9	8	5½	4	6	
		tube	12	6	3	1½	1	8	
		bottle	12	4	3	1½	1	8	
	shampoo liquid	..	..	..	..	..	..	..
	Vasolastine (444 FAIR)								
	ampoules 2 mils	..	6	21	0ea	5	3ea	33	6
		25	80	0ea	20	0ea	127	6	
		100	300	0ea	75	0ea	475	0	
	Veet "O" (343 DH)								
	odourless hair-removing								
	cream	24	6	12	3	3	9		
	Velactin (1303 Wander)								
	powder .. ..	..	9 oz	47	3	..	5	3	
	Velbe (413 Lilly)								
	ampoules dry powder	..	10 mgm	78	4ea	..	117	6	
	Veno's (104 BP)								
	cough mixture small	..	20	4	5	1	2	7	
	large .. ..	..	32	6	8	1½	4	2	
	Ventos (232 Carter)	2½ oz	17	0	4	3	3	0	
	Vermithol (328 CCC)	..	1 qt	..	..	..	23	4	
	Vick (1277 VI)								
	cetanium cough syrup	2 oz	16	11	4	3	2	3	
	VapoMist nasal sprav								
<i>Delete</i>	Vimaltol (1303 Wander) both sizes								

Vitapointe (484 Fulford)	15	0	7	6	2	6			
	21	0	10	6	3	6			
Vivipan (328 CCC) nasal 12 oz	..	..	..	..	18	1			
Volpar (179 BDH)									
paste and applicator ..	52	0	..	..	6	6			
gels	24	0	..	..	3	0			
paste, 60gm	24	0	..	..	3	0			
tablets, foaming ..	24	0	..	..	3	0			
Volume (1219 Teeda)									
dry shampoo powder ..	5	Sea	1	5ea	9	9			
Vytina (107 BH&L)									
tonic phosphates ..	4 oz	21	6	5	4½	3	6	†	
	8 oz	34	0	8	6	6	0	†	
	16 oz	60	0	15	0	10	0	†	
<i>Delete</i>	Wanderlac (1303 Wander) 1 lb								
	Wardonia (1304 TW)								
	blades barrel-hole (5) ..	11	6	2	10½	1	8		
	slotted (5)	11	6	2	10½	1	8		
	pack No. 10	27	6	6	10½	4	6		
	containers for 30 used								
	blades	15	6	3	10½				
	containers for 60 used								
	blades	18	6	4	7½				
	razor sets								
	"Pilot"	No. 1	12	6	3	1½	3	6	
	"Service"	No. 2	16	6	4	1½	4	6	
	"Rugby"	No. 3	37	6	9	4½	7	6	
	"Devon"	No. 4	67	6	16	10½	12	6	
	"Rugby de-luxe" ..	No. 5	67	6	16	10½	12	6	
	"Devon de-luxe" ..	No. 6	9	0ea	2	3ea	17	6	
	"Travellers de-luxe" ..	No. 7	10	6ea	3	0ea	22	6	
	"Zip"	No. 8	12	6ea	3	0ea	25	0	
	dressing case	No. 9	18	6ea	5	0ea	35	0	
		No. 10	18	6ea	5	0ea	35	0	
	Wata (980 Photopia)								
	optical viewfinder ..	W39	20	10ea	5	0ea	36	3	
	Watameter (980 Photopia)								
	11 rangefinder	W2	39	10ea	9	9ea	69	6	
	super	W3	42	8ea	10	6ea	74	6	
	Weet Meet (1175 SPL)								
	No. 1 .. ..	..	10	2	..	..	1	1	
	No. 2 .. ..	..	10	2	..	..	1	1	
	Wellcome (208 BW)								
	ergometrine maleate								
	0.5 mgm in 1cc	..	10	62	0	..	7	9	†s1
		100	464	0	..	..	58	0	†s1
	pasteurella antiserum (vet)	100 cc	360	0	..	..	40	0	
<i>Delete</i>	tetanus toxoid (vet)	10 cc							
<i>Delete</i>	toilet lanolin .. ..	..	1 oz						
	Whip (933 PLG)								
	after shave lotion ..	..	6	10ea	3	5ea	14	3	
		18	0ea	9	0ea	39	8		
	Wopsey (107 BH&L)								
	wasp killer .. ..	..	16	0	..	..	2	3	
	Wright-Fleming (1393 BRL)								
	antigens								
	diphtheria-pertussis								
	prophylactic 3 × ½ mil	4	3ea	..	..		
	5 mils	7	6ea	..	..		
	diphtheria-tetanus								
	prophylactic ½ mil	1	10½ea	..	..		
	3 × ½ mil	3	4½ea	..	..		
	5 mils	7	10½ea	..	..		
	pertussis .. ..	..	1	10½ea	..	..	
	3 × ½ mil	4	3ea	..	..		
	5 mils	7	6ea				
	tetanus toxoid 2 × ½ mil	3	9ea				
	5 mils	7	1½ea				
	Zom (312AC)								
	ointment	11	0	2	9			

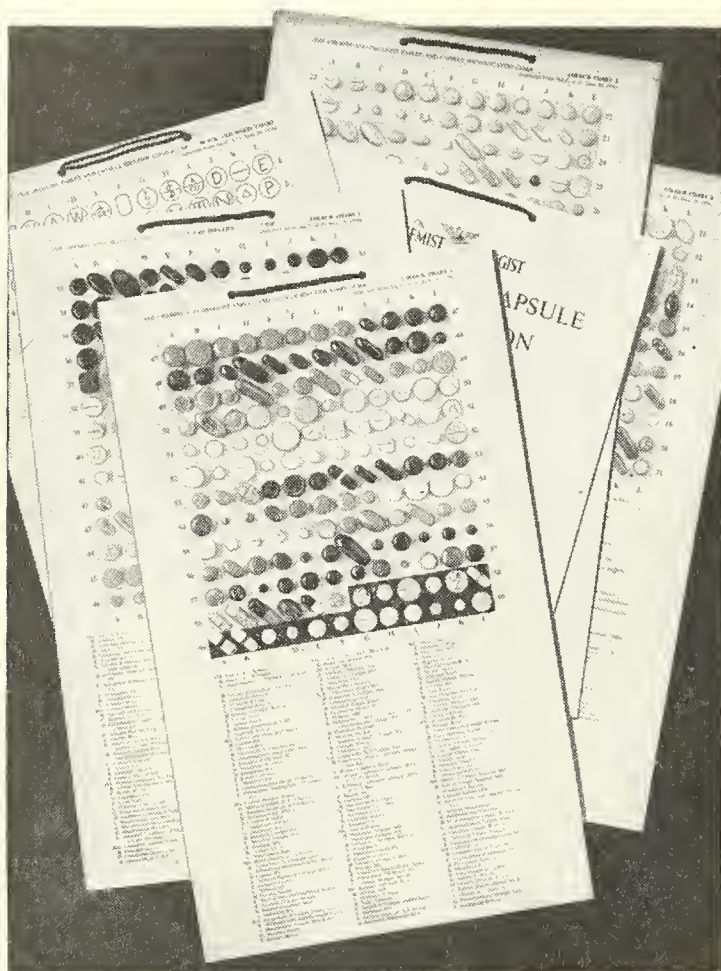
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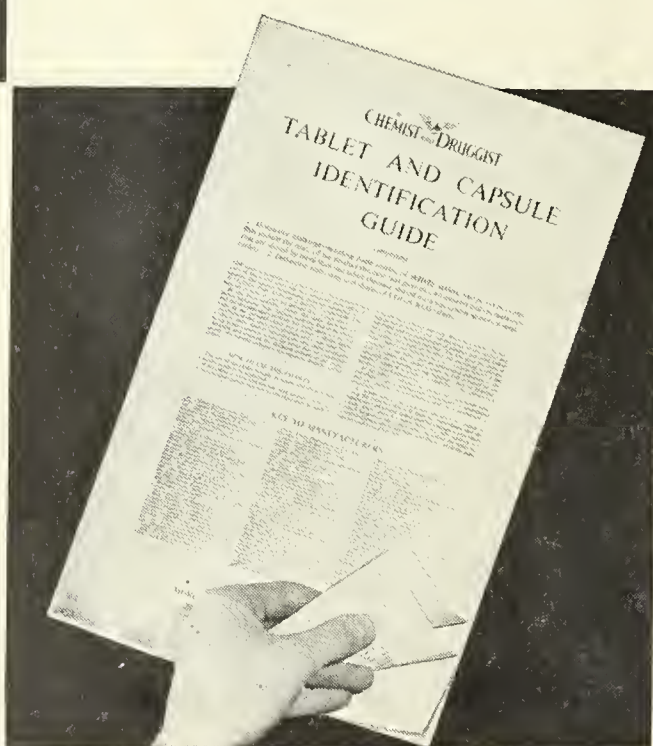
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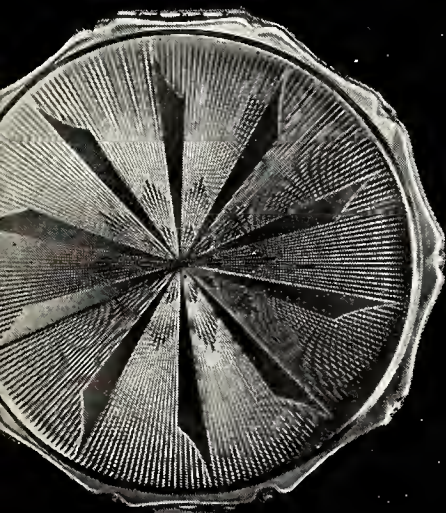


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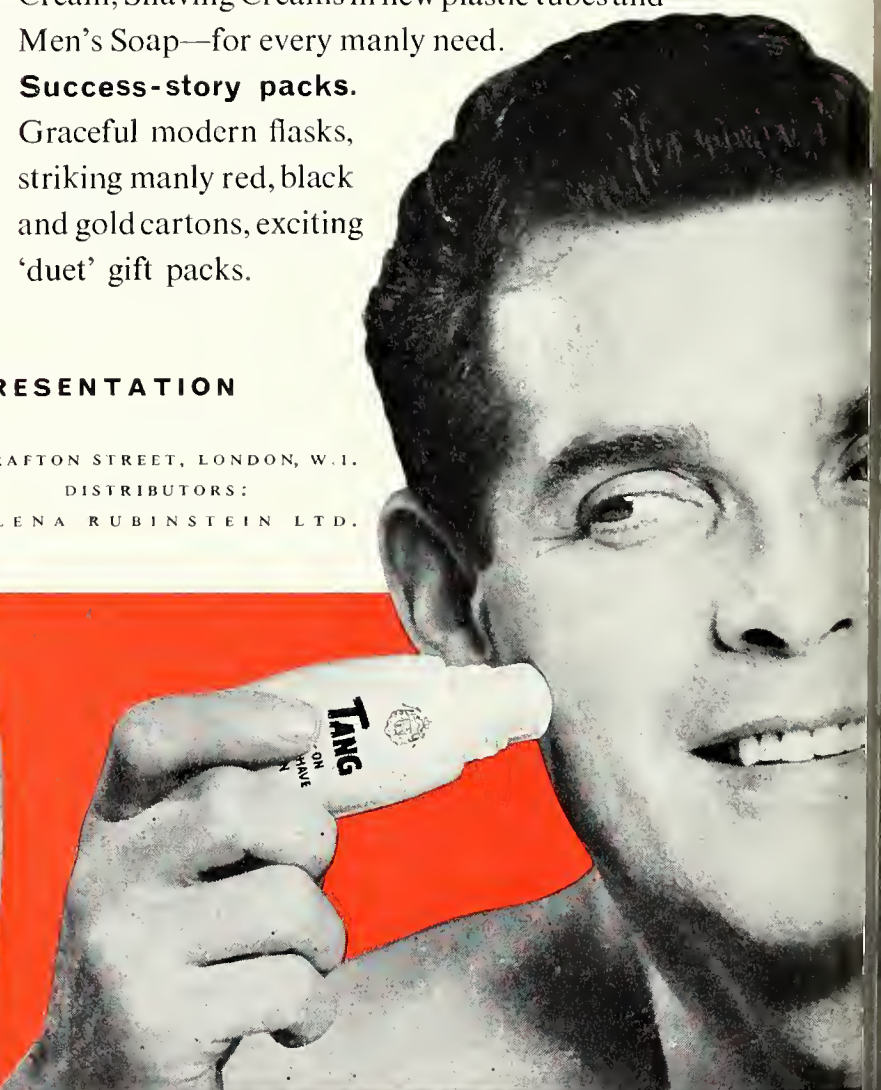
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A student at work in one of twelve laboratories set aside at the Department for research purposes.

maceutical chemistry was arranged, for which, it is recorded, thirty members of the Branch took tickets for their apprentices and assistants.

Another name closely associated with pharmaceutical education in Manchester is that of Louis Siebold (who was editor of the "Year Book of Pharmacy" for twenty-six years). He has been described as "a man of quite exceptional attainments." Under the auspices of the local Chemists' and Druggists' Association, Siebold, who had been a lecturer in pharmacy at Owen's College, established a school of pharmacy of his own. He had a business in Oxford Road and it was there that he conducted his classes. The debt pharmaceutical education in Manchester owes to Siebold has not been forgotten and, today, he is suitably remembered and honoured. A large portrait of him is to be found in the pharmacognosy museum together with—a recent acquisition—the attractively illuminated signboard from his old shop in Oxford Road.

The Pharmacy Department at Manchester University was founded in 1883 and in 1928 was recognised by the Pharmaceutical Society as a school of pharmacy for the training of students for the Qualifying examination. The Department's pharmaceutical degree which was first offered in 1904 was the first of its kind to be established in Great Britain.

Courses

The Department ceased to offer the Pharmaceutical Chemist Qualifying course in 1958, because of the increasing demand for degree places, and at the present time offers courses leading either to the Ordinary Degree of B.Sc. in Pharmacy of the University or to the Degree with Honours.

The Ordinary degree course, which is designed to equip pharmacists for general practice, has an annual intake of about fifty students and occupies three years. At the end of the first year candidates must pass the Intermediate examination in chemistry, botany and a third subject, normally physiology. During that year attendance at courses in pharmaceuticals and pharmaceutical chemistry is also required. The final examination at the end of three years includes pharmaceuticals, pharmaceutical chemistry, pharmacognosy and pharmacology. Forensic pharmacy and dispensing must be passed as a special requirement before entry to the final examination.

The Honours course, of which the School is particularly proud, covers a period of four years and admittance to it is restricted to students who have qualified for a State scholarship or a County Major Award or who alternatively have shown exceptional promise in the first year of the Ordinary course. The annual intake is about six.

The course extends over a period of four years. It includes the subjects of the Ordinary course with additional selected courses in the Honours schools of chemistry, botany or

physiology, the student specialising in *one* of the four subjects, pharmaceuticals, pharmaceutical chemistry, pharmacognosy or pharmacology. In insisting on the intensive study of a single subject in the final year, it is felt that an adequate dimension of depth is added to the student's understanding of his chosen subject. According to the prospectus, the Honours course is "especially suited to those who have in view the possibility of undertaking research in one of the subjects of pharmacy in the University or industrial laboratories, or who envisage any other career in which a specialist knowledge of a particular branch of pharmacy is necessary." Graduates may apply for registration as Pharmaceutical Chemists without further examination on the completion of their practical training.

The degrees of M.Sc., Ph.D. and D.Sc. are also conferred on graduates of the University for independent research work. For that purpose, twelve laboratories in the Department are set aside for research into pharmaceuticals, pharmaceutical chemistry and pharmacognosy and the research laboratories of the Pharmacology and Physiology Departments (which are adjacent to the Pharmacy Department) are also available to pharmacy students. The Department has a complement of five full-time post-graduate research students preparing for higher degrees and a variable number of part-time or teaching research students.

Department of Pharmacy

The Department at present is housed on the second and third floors of the University's Medical School building, special provision for an independent pharmacy school never having been considered desirable. The classes in pharmacognosy, pharmaceuticals, forensic pharmacy and pharmaceutical chemistry are given by the staff of the Pharmacy Department, while those in chemistry, botany, physiology, bacteriology and pharmacology are given in the corresponding departments of the University.

As mentioned before, such interlocking of departments is considered desirable and valuable inasmuch as the students have the advantage of teachers who are specialists in their own subjects and the constant contact with medical, science and arts students cannot fail to have a widening effect on the pharmacist's interests and outlook.

The department has a well equipped pharmacognosy museum, with many interesting features, including highly ornate opium pipes and a curious collection of curare-tipped arrows.

Of perhaps more immediate practical value for the present-day pharmacy student, the museum houses an extensive display of modern "ethical" preparations and their proprietary packs (and a filing cabinet containing comprehensive and up-to-date information on pharmaceutical specialities). Thus students are encouraged to familiarise themselves, at least in part, with the multitude of modern drugs they will encounter in retail or hospital practice.

Adjacent to the museum is the pharmacognosy research laboratory containing a range of incubators at present in use for the culture of flour mites. The effects of gamma radiation and of different conditions of temperature and humidity on those organisms are there being investigated by Dr. Melville of the Department.

The Pharmacy Department is fortunate in possessing a 250-curie cobalt-60 irradiation source which was donated by the Atomic Energy Authority. A grant for the building in which the source is housed was obtained from the Department of Scientific and Industrial Research and from the Pharmaceutical Society. The construction is of the cave-labyrinth type and when irradiation is not in progress the cobalt 60 is stored in the "resting position" in the wall of the "cave." The cobalt is attached to the end of a retractable, flexible rod and can be pushed out of the wall along a guide tube to the "irradiation position." Since its installation the unit has been used extensively in research on the effects of radiation on micro-organisms.

Practical work in pharmaceuticals is carried out in the two

teaching dispensaries and the "Woolley Laboratory" which is reserved for galenical pharmacy. The latter is well equipped with small-scale manufacturing apparatus such as climbing film evaporators, disintegrators, a fermentation/extraction apparatus, a filter press, homogenisers, agitators and various mills.

Reminding us of the adage about an ill wind, that which fanned the fire which broke out in one of the laboratories during the summer vacation in 1960 was largely instrumental in expediting the provision of the splendid new aseptic laboratory which is now a show piece of the Department. Elsewhere, Dr. Rigby, who is a senior lecturer in pharmacy and who specified and supervised the design of the new laboratory, describes in a special contribution some of its innovations and outstanding features.

With regard to the future, the Department hopes to increase its intake of students to sixty-five per annum and to increase the space available to research workers in about 1965, by expansion into the building to be vacated then by the Chemistry Department.

Students' Activities

All pharmacy students are full members of the University Students' Union and make good use of the many facilities provided. At the same time the Pharmacy Students' Society is a flourishing and active body. It arranges debates and visits regularly during the session, and lectures on pharmaceutical topics, are given weekly. There is also a sports section of the Society with football, hockey and lawn tennis clubs.

The University's excellent libraries, athletic ground and physical education centre are all available to the pharmacy students.

THE ASEPTIC LABORATORY

G. J. RIGBY

THE new aseptic laboratory was designed so that a more rational approach to the teaching of the subject could be made.

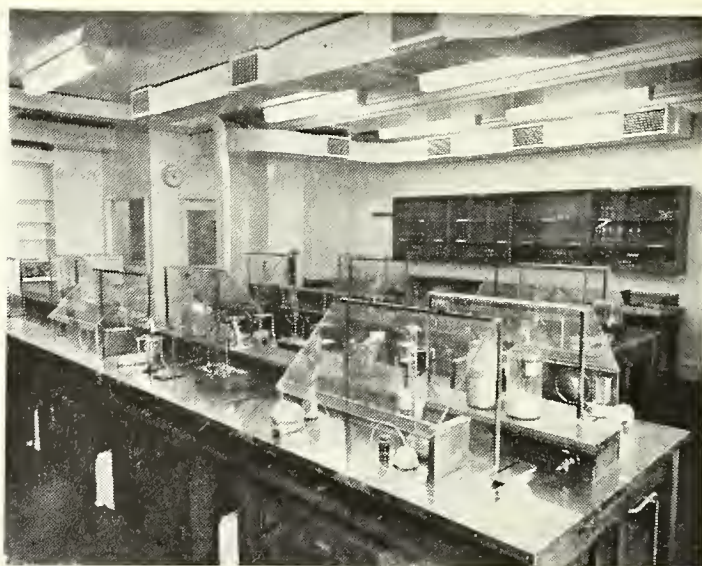
The impossibility of giving fifty-five students, even if taken in small groups, a course of practical exercises in a completely sterile room was recognised. Even if the walls, floor, apparatus, etc., in a small room could be sterilised and the room fed with sterile air, it would be impracticable to expect undergraduates to change their clothing or to assume sterile clothing before entering. In short, the conception of a sterile room was never entertained.

In that respect, the course adopted by the department differs from that adopted at the Welsh School of Pharmacy at Cardiff, where a most ambitious and enterprising scheme has been developed. Each student at Cardiff puts on a sterile plastic cap, apron and boots before entering the sterile room; and thus gains excellent experience of the conditions under which aseptic work is performed in industry. At Manchester it was felt that, although such experience has considerable value, training in the maintenance of sterility inside a small enclosed space was possibly even more valuable. Furthermore, much of this type of work is still experimental, and a variety of approaches is at the present stage almost essential.

The new laboratory is therefore supplied with air filtered through glass wool only. This plenum air supply, along with two extraction systems, provides adequate conditioning for the room even when exercises involving the use of bunsen burners are being performed.

In order to inculcate in the undergraduates some appreciation of the techniques generally employed in strict aseptic operations on an industrial production scale, each student is responsible for maintaining, so far as is possible, absolute sterility within the small space enclosed by an aseptic screen.

Usually only one aseptic exercise is performed inside the screen by each student during a practical session. A folding Perspex screen with arm-holes is erected for each student



A general view of the new aseptic laboratory. The collapsible Perspex screens erected on the stainless steel benches are individually supplied with sterile air.

and all the apparatus required for the exercise is placed inside the screen. Air sterilised by filtration through six Stillite filters can be supplied to each screen via ducts under the bench leading to ports in the bench tops. Each port carries a metal diffuser to distribute the sterile air throughout the screen without creating draughts, and ten or more air changes per minute can be obtained in each screen, depending upon the number in use. That rate of flow ensures that the movement of air is always outwards from the screen.

On the evening before a class is held, the ducting, the air initially in the ducts and inside the screens, and the outside surfaces of all the apparatus inside the screens, are treated with hypochlorite solution which is sprayed by a compressor into the main sterile air duct. The atmosphere is cleared by running the sterile air supply to the screens, along with the extraction fans in the laboratory during the class and for half an hour before the class commences. The type of aerosol and the conditions under which it acts can be varied within limits of humidity, concentration and time of action. The student carries out the aseptic operation inside the screen, without employing the traditional technique of flaming his apparatus.

After the aseptic exercise has been completed, the Perspex screen is dismantled, folded and stored on a ledge beneath the bench. The sterile air diffuser is removed, and the port in the bench top is closed with a stainless steel plug. Exercises not requiring strict aseptic technique can then be carried out on the bench, and in addition the undergraduate can gain experience in and consolidate his technique of performing aseptic exercises by the more conventional methods involving the flaming of apparatus, etc.

Bacteriology

Bacteriological work may also be carried out, since the bench itself is no longer a sterile area, provided that the student realises, as he should, that it is essential to use extreme care when manipulating bacterial cultures. That caveat applies whatever may be the design of the laboratory in which bacteriological work is performed, and whatever may be the use to which the laboratory is normally put.

Overheating of the laboratory, when work requiring bunsen burners is being carried out, is prevented by the efficient ventilation system and also by the use of foot-operated bunsen burners which are used for flaming apparatus. The burners produce a small flame when not required for flaming purposes; a full supply of gas can be delivered to the burner only by operating the spring-loaded foot controlled valve.

QUALIFYING IN PHARMACY

Requirements for registration and information on further studies

STUDENTS in Great Britain who have decided to take up pharmacy as a career should first register as a "student" with the Pharmaceutical Society, 17 Bloomsbury Square, London, W.C.2. The fee for registration as a "student" is £4 4s. A typical standard for entrants in England and Wales is a pass in the General Certificate of Education at Ordinary level in English language, mathematics and a language other than English and at Advanced level in each of the subjects chemistry, physics and either biology, botany or zoology. The Society has its own Entrance Examination so that students who have attained the Advanced level of General Education but whose subjects differ from those above can take the examination in the outstanding subject or subjects.

Students from Scotland should have obtained a Leaving Certificate with passes on the higher standard, obtained at not more than two sittings of the examination, in English, a language other than English, mathematics and one other subject. An acceptable alternative is a Leaving Certificate with three passes on the higher standard (one of which must be English) plus two passes on the lower standard at not more than two sittings. The subject passed must include mathematics and a language other than English. The student must then pass either the Society's Entrance Examination in all subjects to qualify for registration as a student or pass the appropriate subjects in the G.C.E. at Advanced Level. The Society's Entrance Examination (subjects are chemistry, physics and biology) is held in March, June, September and December. The examination fees are £3 3s. for each subject.

Three-year Course

The next step for the student is to attend a full-time course at a school of pharmacy for the Pharmaceutical Chemist Qualifying Examination. The subjects for study are pharmacognosy, pharmaceutical chemistry, physiology, pharmacology and pharmaceuticals. The course extends over three years and is divided into three parts. The student is examined in pharmacognosy, pharmaceutical chemistry and physiology at the end of the first year (written papers only); in pharmacognosy, pharmaceutical chemistry and pharmaceuticals (written and practical) at the end of the second year; and at the end of the third year there is a written examination in pharmaceutical chemistry, a written and oral in pharmacology and a written, practical and oral examination in pharmaceuticals.

Examination fees are £2 2s. for each subject in the first year and £3 3s. per subject for the following years. As well as passing the Qualifying Examination a student must complete a course of practical training of not less than one year before being admitted to the Pharmaceutical Register.

The training can be done in a pharmacy, a hospital pharmaceutical

department or a pharmaceutical manufacturing laboratory, either before or after the three-year full-time course of study. Particulars as to the place where training is to be done must be submitted to the Secretary and Registrar of the Society. On completion of the year's practical training registration as a pharmacist can be effected on payment of £5 5s. each year.

Degrees in pharmacy are awarded at the Universities of: Glasgow, Liverpool, Leeds, London, Manchester, Nottingham and Wales. Graduates holding these degrees may apply for registration as a pharmacist, but they must first complete one year's practical training and pass the Pharmaceutical Society's Qualifying Examination in forensic pharmacy. To a small extent the entrance requirements of the universities differ slightly from those required by the Pharmaceutical Society and particulars should, therefore, be sought from the university where the student intends to study.

There are technical colleges in all large cities where a student may receive tuition for the Society's Entrance Examination. A list is given on page 123, with the name and the head of department and (where available) the date when the next session starts.

For the three-year qualifying course there are eighteen schools of pharmacy in Great Britain including the seven university schools mentioned above; particulars of these are also given in the same table. Normally university schools give priority to students who are to read for the degree in pharmacy awarded by that university, but some of the technical colleges take students for the external degrees awarded by the University of London.

Demand for places whether at technical college or university is usually in excess of places available and early application is essential; normally between October and January for the following September-October session.

Tuition Fees

The tuition fees at the schools vary considerably; in Scotland they are from £50-£55 per session and in England they vary from £26 to £38 for the Society's diploma according to the school. For the Degree the cost is around £66 per year. Those figures do not include cost of residence and the total cost might well be from £300-£400 per year. There are grants and scholarships available which may cover maintenance as well as fees, and advice about these should be sought from the local education authority. Many of the colleges also give prizes annually to students of suitable merit. Advice on those and how to apply for them can be obtained from the local education authority or the entrant's school. Most counties will award an educational grant towards the cost of tuition and maintenance to students who have gained three passes in the General Certificate of Education at Advanced level.

Northern Ireland

To be eligible for registration as a "Student" a candidate must have passed in the following subjects of one of the recognised examinations: English language, a mathematical subject, physics, chemistry and any other subject.

If the five subjects have not been taken at the one occasion then at least one of the subjects must have been passed at Advanced level or marks equivalent to the credit standard in the Grammar School Senior Certificate Examination of the Ministry of Education for Northern Ireland must have been obtained in at least two of the subjects taken at Ordinary level. The following examinations are recognised:

The Grammar School Senior Certificate Examination of the Ministry of Education for Northern Ireland.

The Leaving Certificate Examination of the Scottish Education Department.

The General Certificate of Education Examination of the following examining bodies:

University of Bristol.

University of Durham.

University of London.

Cambridge Local Examinations Syndicate.

Oxford and Cambridge Schools Examination Board.

Oxford Local Examinations Delegation.

The Associated Examining Board for the General Certificate of Education.

Joint Matriculation Board of the Northern Universities.

Southern Universities Joint Board for School Examinations.

Welsh Joint Education Committee.

Part I Qualifying Examination

After registration the student must attend a one-year full-time course of instruction in the subjects biology, physics and chemistry. A student who has failed on three occasions to pass the examination may be permitted a fourth attempt only if so recommended by the board of examiners. A student who has passed the examination must then serve an apprenticeship for two years under a registered pharmacist.

Part II Qualifying Examination

After completion of apprenticeship the student must attend a two-year course of study for the Part II Qualifying Examination which is divided into Part A and Part B. The subjects of the examination are:

Part A: Pharmaceutical chemistry I, pharmaceuticals I, pharmacognosy and physiology.

Part B: Pharmaceutical chemistry II, pharmaceuticals II, and pharmacology.

A student who passes the Part A examination or who fails to satisfy the board of examiners in only one subject may attend the course of instruction in the Part B subjects. A student who

fails to satisfy the board of examiners in two only of the Part A subjects must re-attend the course of instruction in those subjects before again presenting himself for examination. He may at the same time attend the lectures in pharmacology. If a student fails to satisfy the board of examiners in three or more of the Part A subjects he must re-attend the course in all four subjects before again presenting himself for examination. On passing the Part II Qualifying Examination, provided he is not less than twenty-one years of age, the student is eligible to be registered as a Pharmaceutical Chemist. A person who has passed the final examination for the degree of pharmaceuticals of the Queen's University, Belfast, and who satisfies the examiners in such other subjects as the Council may determine shall, if his apprenticeship is completed, be eligible for registration as a pharmaceutical chemist.

For registration as a student the fee is £4 4s. The fee for Part I Qualifying Examination is £6 6s. for the first occasion and £4 4s. for subsequent entry; for the Part II Qualifying Examination the fee is £3 3s. for each subject.

Republic of Ireland

THE regulations governing qualifying in the Republic of Ireland are at present under revision.

Dentistry

THE practice of dentistry is restricted by Act of Parliament to persons registered in the dentists' register or under the Medical Acts, but the provision of general dental services under the National Health Service Acts is confined to persons included in the dentists' register. Possession of a degree or licence in dental surgery granted by a university or other licensing corporation in Great Britain or Ireland carries with it the right to be included in the dentists' register kept by the General Dental Council, 37 Wimpole Street, London, W.1. Degrees and licences in dental surgery are granted by Bristol, Durham, Leeds, Liverpool, Manchester and Sheffield Universities and by Queen's University, Belfast. Degrees only are granted by Birmingham, London, Edinburgh, Glasgow, and St. Andrews Universities and by the National University of Ireland and by Dublin University. Licences are granted by:—ROYAL COLLEGE OF SURGEONS OF ENGLAND, Lincoln's Inn Fields, London, W.C.2; ROYAL COLLEGE OF SURGEONS OF EDINBURGH, 18 Nicholson Street, Edinburgh, 8; ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW, 242 St. Vincent Street, Glasgow; ROYAL COLLEGE OF SURGEONS OF IRELAND, St. Stephen's Green, Dublin. The course usually extends over five years. Registration in the Republic of Ireland is in the hands of the Dental Board, 57 Merrion Square, Dublin.

Medicine

THE registration body for medical practitioners in the United Kingdom is the General Medical Council, 44 Hallam Street, London, W.1. There are a number of examining bodies, and

when a student has passed the final examination of one of these bodies he is entitled to provisional registration as a medical practitioner. In order to obtain full registration he must thereafter render satisfactory service for twelve months in appropriate resident appointments in approved hospitals or institutions. Study for a medical qualification occupies a minimum of five academic years after passing a recognised examination in general education and in chemistry, physics and biology.

The principal universities in the U.K. confer degrees in medicine and surgery (M.B., Ch.B., or equivalent). Other examining bodies whose qualifications confer a title to registration are:—

THE ROYAL COLLEGE OF PHYSICIANS OF LONDON and THE ROYAL COLLEGE OF SURGEONS OF ENGLAND, particulars are obtainable from the Secretary, Examining Board in England, Examination Hall, 8 Queen Square, London, W.C.1.

THE SOCIETY OF APOTHECARIES OF LONDON, particulars are obtainable from the Registrar, Apothecaries' Hall, Black Friars Lane, Queen Victoria Street, London, E.C.4.

THE ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF EDINBURGH and THE ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW, particulars are obtainable from the Secretary, Scottish Conjoint Board, 18 Nicholson Street, Edinburgh.

Pure and Applied Chemistry

THE Ministry of Education, in Rules 100 (revised 1958) gives details of National Certificates and Diplomas available in Chemistry and Applied Chemistry. The courses of instruction for National Certificates require attendance at an approved course for at least 180 hours in each year. In chemistry there is a senior course extending over three years for students who, up to the age of sixteen, have received a full time education or alternatively have satisfactorily completed a preparatory part-time course of study. It leads to the Ordinary National Certificate in chemistry for which the student receives, in addition to training in chemistry, tuition in mathematics and physics. The advanced course extends over two years and leads to the Higher National Certificate in chemistry. Students are not admitted to the course unless they are thought to be qualified to profit by it. The courses for National Certificates in applied chemistry are subject to substantially the same regulations as apply for chemistry, with the additional subject of applied chemistry in the senior course, and a study of a selected branch of chemical technology in the advanced course. Full-time courses of two years' duration and sandwich courses extending over three years lead to Higher National Diplomas in chemistry and applied chemistry.

Photographics

THE examinations of the Photographic Dealers' Association have for their object the raising of the standard of efficiency of assistants, both in practical photography and salesmanship as

applied to the business of the photographic dealer. The examinations, which can be taken by retail photographic dealers and assistants, will comprise intermediate and advanced grades. In the intermediate examinations, candidates will be required to give written and oral answers to the questions set on such subjects as simple cameras, accessories, sensitised materials, chemicals, etc. All successful candidates in the intermediate examination receive a certificate. In the advanced examination, which is divided into two parts, Part I, general, and Part II, cine, candidates obtain a diploma for passing either part. In addition, two travelling scholarships are offered each year to outstanding candidates. That examination is open only to those who have passed the intermediate, and comprehensive knowledge must be shown in the following subjects:—General—miniature cameras, processing, enlarging, colour and cine photography, etc., to a more advanced standard; cine—principles of amateur cinematography, sensitometry, films and processing, exposure, cameras and projectors, etc.

The examinations which consist of three parts, written, oral and practical, are restricted to those engaged in retail photographic dealing, and the examination is designed, in each of its three parts, to test the merit of candidates from the standpoint of retail photography. The written paper calls for a sufficient standard of knowledge for the candidate to be able to give satisfactory technical advice to a customer.

Holders of the P.D.A. diploma become automatically eligible for associate membership of the Association on application, and if and when they open an approved retail shop, are automatically entitled to full membership of the P.D.A.

The examinations take place in London, Manchester, Dublin and a suitable centre in Scotland. The entrance fees are:—Intermediate examination, £4 4s. or £2 2s. for P.D.A. members and assistants. Advanced examination, £6 6s. or £3 3s. for P.D.A. members and assistants. Details may be obtained from the general secretary of the Association, 46 Bloomsbury Street, London, W.C.1.

Optics

THERE are four examining bodies concerned with the career of ophthalmic opticians: The Worshipful Company of Spectacle Makers, the British Optical Association, the Scottish Association of Opticians, and the Institute of Optical Science. The qualifying course lasts three years at an approved college plus one year's clinical practice. Entrants to the course must hold two subjects at advanced level and three at ordinary level, G.C.E. Further details from the Association of Optical Practitioners, 65 Brook Street, London, W.1.

Chiropody

To gain admission to the National Register of Medical Auxiliary Services, it is necessary to pass the examination of the Society of Chiropodists, 8 Wimpole Street, London, W.1. The pass certificate of the Society is also accepted by the Ministry of Health and the Department of Health for Scotland as qualifying for employment within the National Health Service.

COURSES FOR PHARMACY STUDENTS

1. ENTRANCE EXAMINATION

THE following table gives details of courses for the Pharmaceutical Society's entrance examination and its G.C.E. equivalent. Intending students should apply for places as soon as possible.

The designation of the department is indicated by the italic letter following the name of the institution:—

B=Biology; C=Chemistry; P=Pharmaceutical; S=Science

Centre	Institution	Head of Department	Session starts	Enrolment
ABERDEEN ...	Robert Gordon's Technical College* <i>P</i>	D. Edwards, B.Sc., Ph.D., F.P.S., F.R.I.C.	October 3	By September 1
BIRKENHEAD ...	Technical College <i>C</i>	D. G. Cooper, B.Sc., F.R.I.C., A.I.B.P.	September 11	September 4
BLACKBURN ...	Technical College <i>C</i>	A. Walton, M.Sc., F.R.I.C., Dip. Ed.	September 11	September 11
BOLTON ...	Technical College <i>C</i>	G. W. Wood, B.Sc., Ph.D., F.R.I.C.	September 11	September 11
BRIGHTON ...	Technical College <i>P</i>	J. C. Parkinson, B.Pharm., Ph.D., F.P.S., F.R.I.C.	September 21	September 19
BURNLEY...	Municipal College <i>C</i>	F. Clifford, B.Sc., Dip. Ed.	September 19	September 11-14
CARLISLE...	Technical College <i>C</i>	F. H. Day, Ph.D., M.Sc., F.R.I.C.	September 19	September 8, 9
CHATHAM ...	Medway College of Technology <i>C</i>	H. I. Stonehill, D.Sc., F.R.I.C.		
CHELMSFORD ...	Mid-Essex Technical College <i>S</i>	M. R. Gridley, B.Sc., F.Inst.P.	September 18	Immediately
CHELTENHAM ...	North Gloucestershire Technical College <i>S</i>	L. McPherson, M.Sc., A.K.C., Dip. Ed.	September 18	September 11
COVENTRY ...	Technical College <i>S</i>	D. O. Weitzel, B.Sc., A.K.C., Dip. Ed., F.L.S., M.I.Biol.	September 25	September 11
CROYDON ...	Technical College <i>C</i>	S. R. Robinson, Ph.D., B.Sc., F.R.I.C., D.I.C., A.R.C.S.	September 18	September 11
CRUMLIN ...	Technical College of Monmouthshire <i>C</i>	V. A. Hewlett, F.R.I.C., M.Sc.	September 18	September 11
DAGENHAM ...	S.E. Essex Technical College <i>C</i>	J. Ratcliffe, B.Sc., F.R.I.C.	September 20	September 18
DARTFORD ...	North-west Kent College of Technology <i>C</i>	J. R. Barr, M.Sc., F.R.I.C.	September 19	From Sept. 1
DONCASTER ...	Technical College <i>C</i>	W. F. Andrews, M.Sc., B.Sc., A.R.I.C.		
DUNDEE ...	Technical College <i>C</i>	T. J. Morrison, B.Sc., Ph.D., F.R.I.C.	September 25	September 25
EDINBURGH ...	Heriot-Watt College <i>P</i>	H. H. Campbell, B.Sc., F.P.S., F.R.I.C.	October 10	August 1
EWELL ...	County Technical College <i>S</i>	L. P. Lawrence, M.Sc., F.R.I.C.	September 19	September 11-12
FOLKESTONE ...	Technical College <i>C</i>	W. J. Davies, B.Sc., A.M.I.Mech.E., A.M.I.E.E.		Immediately
GLOUCESTER ...	Technical College <i>C</i>	R. B. Williams, M.A., B.Sc., D.Phil., F.R.I.C.	September 25	September 11
GUILDFORD ...	County Technical College <i>C</i>	J. C. Bevan, M.A., B.Sc., F.R.I.C.	September 18	September 11
HALIFAX ...	Percival Whitley College of Further Education	L. Hey, B.Sc., Ph.D., A.R.I.C.	September 18	September 4-7
HUDDERSFIELD ...	College of Technology <i>C</i>	E. Tittensor, Ph.D., F.R.I.C., B.Sc.	September 18	September 11-14
KINGSTON-ON-THAMES ...	Technical College <i>C</i>	N. E. Lindop, M.Sc., F.R.I.C.	September 18	September 11
LEICESTER ...	College of Technology <i>P</i>	C. Gunn, B.Pharm., F.P.S.	September 18	By September 18
LIVERPOOL ...	College of Technology <i>P</i>	T. L. Bowyer, F.P.S., F.R.I.C.	September 11	September 8
LONDON ...	Acton Technical College <i>S</i>	J. Atchison, M.Sc., A.Inst.P.	September 18	September 5
	Northern Polytechnic <i>C</i>	W. Gerrard, D.Sc., Ph.D., F.R.I.C.	September 25	September 19-20
	Norwood Technical College <i>C</i>	M. A. Fill, F.R.I.C.	September 11	Immediately
	South-west Essex Technical College <i>C</i>	S. Lewin, M.Sc., Ph.D.	September 11	September 11
MANCHESTER ...	The University	K. Bullock, Ph.D., M.Sc., F.P.S., F.R.I.C.	October 11	No vacancies
NEATH ...	Technical College <i>C</i>	E. McCutcheon, M.Sc.	September 11	September 11
NEWPORT ...	College of Technology <i>S</i>	L. McGraghan, M.Sc., F.R.I.C.	September 18	September 11-15
NORWICH ...	City College and Art School <i>S</i>	R. Jones, B.Sc.	September 25	Sept. 15-18-19
NORTHAMPTON ...	College of Technology <i>C</i>	W. Siddall, B.Sc., Ph.D., A.R.I.C.	September 18	September 11-15
PLYMOUTH ...	Technical College* <i>P</i>	V. Smith, M.Sc., F.R.I.C., F.P.S.	September 18	By September 18
PORTSMOUTH ...	College of Technology	E. Thorpe, B.Sc., B.Pharm., F.P.S.	September 25	Immediately
PRESTON ...	Harris College <i>C</i>	J. J. Betts, B.Sc., Ph.D., F.R.I.C.	September 25	September 18
REDRUTH ...	Cornwall Technical College <i>S</i>	J. R. Slater, B.Sc., F.R.S.A.	September 11	By September 11
ROTHERHAM ...	College of Technology* <i>C</i>	M. B. Thompson, A.R.S.M., B.Sc., Ph.D.	September 25	September 11
ST. HELENS ...	Technical College <i>C</i>	L. W. M. Tyrrell, B.Sc., Ph.D., F.R.I.C.	September 21	September 7
SALFORD ...	Technical College <i>S</i>	R. M. Wall, B.Sc., A.R.I.C.	September 28	September 11
SHREWSBURY ...	Technical College <i>S</i>	P. K. Bingham, M.Sc.	September 18	By September
SOUTHEND-ON-SEA ...	Municipal College <i>C</i>	C. R. Barnes, B.Sc., A.R.I.C.	September 4	September 4
SOUTHPORT ...	Technical College <i>C</i>	A. E. Hollis, B.Sc., Dip. Ed.	September 11	By September 11
STOCKPORT ...	The College <i>C</i>	H. H. Armstrong, B.Sc., F.R.I.C., T.D.	September 18	September 11-12
STOKE-ON-TRENT ...	North Staffordshire College of Technology <i>C</i>	W. K. Wilde, M.Sc., F.R.I.C.	September 25	September 18-20
SUNDERLAND ...	Technical College* <i>P</i>	F. H. Oliver, B.Sc., B.Pharm., F.P.S., A.C.T.	October 2	September 6
TORQUAY ...	South Devon Technical College	C. A. Colman-Porter, M.Sc., D.I.C., F.R.I.C.	September 18	September 11-13
WEYBRIDGE ...	Brooklands County Technical College <i>S</i>	R. C. Rogers, M.Sc., A.R.C.S., F.R.I.C.	September 18	September 11-13
WOLVERHAMPTON ...	College of Technology <i>S</i>	A. G. Caichpole, B.Sc., Ph.D., F.R.I.C.	September 11	September 4
WREXHAM ...	Denbighshire Technical College <i>C</i>	E. W. Claydon, Ph.D., F.R.I.C., B.Sc.	September 18	September 11-13

*Institutions also offering a course for the Qualifying examination.

2. QUALIFYING EXAMINATION

Centre	Institution	Head of Pharmaceutical Department	Session starts	Enrolment
ABERDEEN ...	Robert Gordon's Technical College	D. Edwards, B.Sc., Ph.D., F.P.S., F.R.I.C.	October 3	By September 1
BIRMINGHAM ...	College of Technology	F. R. C. Bateson, B.Pharm., F.P.S.	October 2	No vacancies
BRADFORD ...	Institute of Technology	J. M. Rowson, Ph.D., M.Sc., F.P.S.	October 2	No vacancies
BRIGHTON ...	Technical College	J. C. Parkinson, B.Pharm., Ph.D., F.P.S., F.R.I.C.	September 21	No vacancies
BRISTOL ...	College of Technology	D. A. Norton, B.Sc., F.P.S., A.C.T.	September 12	Immediately
CARDIFF ...	Welsh School of Pharmacy Welsh College of Advanced Technology	R. V. Lloyd, B.Pharm., F.P.S.	September 27	No vacancies
EDINBURGH ...	Heriot-Watt College	H. H. Campbell, B.Sc., F.P.S., F.R.I.C.	September 18	No vacancies
LEICESTER ...	College of Technology	C. Gunn, B.Pharm., F.P.S.	September 11	September 8
LIVERPOOL ...	College of Technology	T. L. Bowyer, F.R.I.C., F.P.S.	September 25	No vacancies
LONDON ...	Chelsea College of Science and Technology	A. H. Beckett, D.Sc., Ph.D., F.R.I.C., F.P.S.	September 18	September 18
PLYMOUTH ...	Technical College	V. Smith, M.Sc., F.P.S., F.R.I.C.	September 25	Immediately
PORTSMOUTH ...	College of Technology	E. Thorpe, B.Sc., B.Pharm., F.P.S.	October 2	September 6
SUNDERLAND ...	Technical College	F. H. Oliver, B.Sc., B.Pharm., F.P.S.		

3. UNIVERSITY DEGREE COURSES IN PHARMACY

(a) Internal degree of the university.

Centre	Institution	Head of Pharmaceutical Department	Session starts	Enrolment
CARDIFF ...	Welsh School of Pharmacy Welsh College of Advanced Technology	R. V. Lloyd, B.Pharm., F.P.S.	September 27	No vacancies
GLASGOW ...	Royal College of Science and Technology	J. P. Todd, Ph.D., F.R.I.C., F.P.S.	October 5	October 5
LEEDS ...	School of Medicine, Department of Pharmacology	D. R. Wood, B.M., B.Ch., M.A., B.Sc.	October 3	October 2
LONDON ...	School of Pharmacy, University of London Chelsea College of Science and Technology	W. H. Linnell, D.S., M.Sc., Ph.D., F.P.S., F.R.I.C.	October 4	No vacancies
MANCHESTER ...	The University	A. H. Beckett, D.Sc., Ph.D., F.R.I.C., F.P.S.	September 25	No vacancies
NOTTINGHAM ...	The University	K. Bullock, Ph.D., M.Sc., F.P.S., F.R.I.C.	October 11	No vacancies
		G. E. Trease, B.Pharm., F.P.S., F.R.I.C., F.L.S.	October 6	No vacancies

(b) External degree of London University.

Centre	Institution	Head of Pharmaceutical Department	Session starts	Enrolment
BIRMINGHAM ...	College of Technology	F. R. C. Bateson, B.Pharm., F.P.S.	October 2	No vacancies
BRADFORD ...	Institute of Technology	J. M. Rowson, Ph.D., M.Sc., F.P.S.	October 2	October 2
BRIGHTON ...	School of Pharmacy, Technical College	J. C. Parkinson, B.Pharm., Ph.D., F.P.S., F.R.I.C.	September 21	No vacancies
LEICESTER ...	School of Pharmacy, College of Technology	C. Gunn, B.Pharm., F.P.S.	September 18	By September 18
SUNDERLAND ...	Technical College	F. H. Oliver, B.Sc., B.Pharm., A.C.T., F.P.S.	October 2	September 6

REVISION AND POST-GRADUATE COURSES

BOLTON: Technical College; Intensive one year, full time G.C.E. (A level) course.

BRADFORD: Institute of Technology; Revision courses for second year Ph.C. and Part I B.Pharm. in 1961-62 session.

BRIGHTON: Technical College; Revision courses of six lectures in Pharmacology and Forensic Pharmacy, at Brighton, September 10 to December 5 and Canterbury, October 3 to December 12.

BRISTOL: College of Science and Technology; "Recent Trends in Therapeutics." Six lectures at 7.30 p.m., October 4 to March 7.

BRISTOL: College of Science and Technology; Revision course for Ph.C. Qualifying Examination. September to December. Post-graduate course in pharmaceutical topics session 1961-62.

BURNLEY: Municipal College; Post-graduate course of twelve lectures by

Dr. G. A. Mogey (department of pharmacology, Leeds School of Medicine) on "Recent Advances in Pharmacology." Commences, October 9.

DARTFORD: North-west Kent College of Technology; Chemical research facilities are available to full-time and part-time students.

EDINBURGH: Heriot-Watt College; Associateship of the Heriot-Watt College (A.H.-W.C.) in Applied Pharmacy. Subjects of examination consist of two of the following:—(a) Pharmaceutical Analysis, (b) Industrial Microbiology, (c) Pharmaceutical Engineering.

LONDON: Chelsea College of Science and Technology; Three pharmacy extension courses for post-graduate students:—(a) "Extension Course in Advanced Pharmaceutics," from October 17; (b) "Recent Advances in Medicinal Chemistry," from October 17; (c) "Pharmaceutical Aspects of Cosmetology," from January 16.

LEICESTER: School of Pharmacy; Post-graduate training for Ph.D. and Research Diploma of the Royal Institute of Chemistry in synthetic organic chemistry and radiochemistry (October 1 to April 1962).

LIVERPOOL: College of Technology; "Modern Drugs Part II" during Easter Term 1962.

PORTSMOUTH: College of Technology; Short (five-day and week-end) courses of lectures and practical work on radioisotopes offered from time to time.

SUNDERLAND: Technical College; short course for hospital pharmacists on sterilisation with special reference to Central Sterile Supply Departments. Commence October 11, 3 p.m. to 7 p.m., for four weeks.

WOLVERHAMPTON: College of Technology; G.C.E. (A level) courses. Also three post-graduate courses in radiochemistry and chromatography.

BOOKS FOR PHARMACISTS

THE tabulated bibliography here given has been compiled to provide up-to-date details of books on pharmaceutical and related subjects. Though by no means exhaustive, it should serve as a convenient guide to pharmacists and students of pharmacy.

PHARMACEUTICS				TITLE	AUTHOR	PUBLISHER	FORMAT AND PRICE
TITLE	AUTHOR	PUBLISHER	FORMAT AND PRICE	<i>Analysis</i>			
*TUTORIAL PHARMACY (fifth ed., 1957)	COOPER, J. W., and GUNN, C.	Pitman Medical Publishing Co., Ltd.	pp. 752, illus. 45s.	*A GUIDE TO QUALITATIVE ORGANIC CHEMICAL ANALYSIS	LINSTEAD, R. P., and WEEDON, B. C. L.	Butterworth & Co. (Publishers), Ltd.	pp. 169, with tables, 21s.
*DISPENSING FOR PHARMACEUTICAL STUDENTS	COOPER, J. W., and GUNN, C.	Pitman Medical Publishing Co., Ltd.	New edition in preparation	*A TEXTBOOK OF QUANTITATIVE INORGANIC ANALYSIS	VOGEL, A. I.	Longmans, Green & Co., Ltd.	pp. 1,200, illus. 50s.
*TEXTBOOK OF PHARMACEUTICAL COMPOUNDING AND DISPENSING (second ed., 1956)	LYMAN, R. A.	Pitman Medical Publishing Co., Ltd.	pp. 476, illus. 80s.	*A HANDBOOK OF ORGANIC ANALYSIS (fourth ed.)	CLARKE, H. T.	Edward Arnold (Publishers) Ltd.	pp. xvi + 363, 15s.
PHARMACEUTICAL EMULSIONS AND EMULSIFYING AGENTS		Morgan Brothers (Publishers), Ltd.	pp. 104, 9s.	*LABORATORY MANUAL OF QUALITATIVE ORGANIC ANALYSIS	OPENSHAW, H. T.	Cambridge University Press	pp. 104, 12s. 6d.
*LATIN FOR PHARMACEUTICAL STUDENTS (sixth ed.)	COOPER, J. W., and MCLAREN, A. C.	Pitman Medical Publishing Co., Ltd.	pp. 115. 15s.	*SEMI-MICRO ORGANIC PREPARATIONS	WILKINSON, J. H.	Oliver & Boyd, Ltd.	pp. 196, illus. 15s.
*BENTLEY'S TEXTBOOK OF PHARMACEUTICS (seventh ed., August 1961)	DAVIS, H.	Baillière, Tindall & Cox, Ltd.	pp. 1116, illus. 45s. (approx.)	*A TEXTBOOK OF PRACTICAL ORGANIC CHEMISTRY	VOGEL, A. I.	Longmans, Green & Co., Ltd.	pp. 1,216, with diagrams, 65s.
*AIDS TO DISPENSING (fifth ed.)	WATSON, G. M.	Baillière, Tindall & Cox, Ltd.	pp. 176, illus. 7s. 6d.	*TEXTBOOK OF QUANTITATIVE ANALYSIS	KOLTHOFF, I. M., and SANDELL, E. B.	Macmillan Co., New York	pp. 759, illus. 35s.
*THE ART OF DISPENSING (twelfth ed.)		Morgan Brothers (Publishers), Ltd.	pp. 504, illus. 21s.	*AIDS TO QUALITATIVE PHARMACEUTICAL ANALYSIS	PRIESTMAN, J., and EDWARDS, F. C. G.	Baillière, Tindall & Cox, Ltd.	pp. 152, 7s. 6d.
AIDS TO PHARMACEUTICAL LATIN (second ed.)	TREASE, G. E.	Baillière, Tindall & Cox, Ltd.	pp. 176, 7s. 6d.	<i>Organic</i>			
*BRITISH NATIONAL FORMULARY 1960 (Alternative ed.)		The Pharmaceutical Press and British Medical Assoc.	pp. 292, 8s.	*PERKING AND KIPPING'S ORGANIC CHEMISTRY Part I Part II Part III	KIPPING, F. S., and KIPPING, F. B.	W. & R. Chambers, Ltd.	illus.
*ANTISEPTICS, DISINFECTANTS, FUNGICIDES AND STERILIZATION	REDDISH, G. F.	Henry Kimpton, Ltd.	pp. 841, with diagrams. 112s. 6d.	*PRACTICAL ORGANIC CHEMISTRY	MANN, F. G., and SAUNDERS, B. C.	Longmans, Green & Co., Ltd.	pp. 416, 12s. 6d. pp. 368, 11s. 6d. pp. 496, 22s. 6d.
*ANTISERA, TOXOIDS, VACCINES AND TUBERCULINS IN PROPHYLAXIS AND TREATMENT	PARISH, H. J.	E. & S. Livingstone, Ltd.	pp. 227, illus. 30s.	*ORGANIC CHEMISTRY (third ed.)	FIESER, L. F., and FIESER, M.	Reinhold Publishing Corp. (Agents: Chapman & Hall, Ltd.)	pp. 578, with diagrams. 22s. pp. 1,118, 70s.
*DISINFECTION AND STERILIZATION	SYKES, G.	E. & F. N. Spon, Ltd.	pp. 414, illus. 75s.	*ORGANIC CHEMISTRY (seventh ed.)	TURNER, E. E., and HARRIS, M. M.	Longmans, Green & Co., Ltd.	pp. 916, illus. 60s.
CHEMISTRY				*INTRODUCTION TO ORGANIC CHEMISTRY	SCHMIDT, J.	Oliver & Boyd, Ltd.	pp. 948, 35s.
<i>Pharmaceutical</i>				*ORGANIC CHEMISTRY VOL. 1 (third ed.)	BROWN, G. I.	Longmans, Green & Co., Ltd.	pp. 404, with diagrams, 17s.
*BENTLEY AND DRIVER'S TEXTBOOK OF PHARMACEUTICAL CHEMISTRY (seventh ed., 1961)	DRIVER, J. E.	Oxford University Press	pp. 738, illus. 63s.	*ORGANIC CHEMISTRY VOL. 2	FINAR, I. L.	Longmans, Green & Co., Ltd.	pp. 840, illus. 45s.
*PRACTICAL PHARMACEUTICAL CHEMISTRY	APPLEYARD, F. N., and LYONS, C. G.	Pitman Medical Publishing Co., Ltd.	pp. 192, 20s.	*ORGANIC CHEMISTRY (third ed.)	FINAR, I. L.	Longmans, Green & Co., Ltd.	pp. 848, illus. 45s.
*THEORETICAL PHARMACEUTICAL CHEMISTRY (second ed.)	APPLEYARD, F. N., and LYONS, C. G.	Pitman Medical Publishing Co., Ltd.	pp. 602, 30s.	*ORGANIC CHEMISTRY (fifth ed.)	PRESCOTT, F., and RIDGE, D.	University Tutorial Press	pp. 774, with diagrams, 18s. 6d. pp. 624, illus. 25s.
*AIDS TO PHARMACEUTICAL CHEMISTRY	MUTEHAM, W. A.	Baillière, Tindall & Cox, Ltd.	pp. 356, 10s. 6d.	<i>Physical</i>			
*ELECTRONIC THEORY AND CHEMICAL REACTIONS (fourth ed. 1958)	STOTT, R. W.	Longmans, Green & Co., Ltd.	pp. 126, with diagrams. 13s.	*PHYSICAL CHEMISTRY FOR STUDENTS OF PHARMACY AND BIOLOGY (second ed. 1960)	SHERWOOD TAYLOR, F.	William Heinemann, Ltd.	pp. 372, 18s.
*A SIMPLE GUIDE TO MODERN VALENCE THEORY	BROWN, G. I.	Longmans, Green & Co., Ltd.	pp. 184, 15s.	*PHYSICAL CHEMISTRY (fifth ed.)	WALLWORK, S. C.	Longmans, Green & Co. Ltd.	pp. 744, illus. 30s.
THE CHEMICAL CONSTITUTION OF NATURAL FATS	HILDITCH, T. P.	Chapman & Hall, Ltd.	pp. 684, 95s.	*TEXT BOOK OF PHYSICAL CHEMISTRY	MEE, A. J.	William Heinemann, Ltd.	pp. 1,320, 60s.
				*ELEMENTS OF PHYSICAL CHEMISTRY	GLASSTONE, S.	Macmillan & Co., Ltd.	pp. 695, 30s.
				*THE ELEMENTS OF PHYSICAL CHEMISTRY	GLASSTONE, S.	Macmillan & Co., Ltd.	pp. 284, with diagrams. 10s. 6d.
				*PHYSICAL CHEMISTRY	GODDARD, F. W., and JAMES, E. J. F.	Longmans, Green & Co., Ltd.	pp. 774, with diagrams. 70s.
				*PHYSICAL PHARMACY	DANIELS, F., and ALBERTI, R. A. MARTIN, A. N.	John Wiley & Sons, Ltd. Henry Kimpton, Ltd.	pp. 692, illus. 112s. 6d.

*Books recommended at one or more Schools of Pharmacy.

BIOCHEMISTRY

TITLE	AUTHOR	PUBLISHER	FORMAT AND PRICE
*BIOCHEMISTRY FOR MEDICAL STUDENTS (seventh ed. 1960)	THORPE, W. V.	J. & A. Churchill, Ltd.	pp. 560, illus. 30s.
*PRACTICAL BIO-CHEMISTRY	MILLS, G. T., MUNRO H. N., and LEAF, G.	John Smith & Sons (Glasgow), Ltd. Cambridge University Press	pp. 156, 25s.
DYNAMIC ASPECTS OF BIOCHEMISTRY (third ed.)	BALDWIN, E.	Cambridge University Press	pp. 546, 37s. 6d.
AN INTRODUCTION TO COMPARATIVE BIOCHEMISTRY (third ed.)	BALDWIN, E.	Cambridge University Press	pp. 175, 10s. 6d.
BIOCHEMISTRY IN RELATIONSHIP TO MEDICINE (third ed.)	CARTER, C. W., COXON, R. V., PARSONS, D. S. and THOMPSON, R. H. S.	Longmans, Green & Co., Ltd.	pp. 644, illus. 50s.
A GUIDEBOOK TO BIOCHEMISTRY	HARRISON, K.	Cambridge University Press	pp. 158, 17s. 6d.
THE BIOCHEMISTS' HANDBOOK	<i>Edited by</i> LONG, C.	E. & F. N. Spon, Ltd.	pp. 1214, 210s. (approx.)
THE CHEMISTRY OF LIVING CELLS	DOWNES, HELEN R.	Longmans, Green & Co., Ltd.	pp. 560, with diagrams. 45s.
ENZYMES	DIXON, M. B. and WEBB, E. C.	Longmans, Green & Co., Ltd.	pp. 820, with diagrams. 90s.
BIOCHEMICAL CONTRIBUTIONS TO ENDOCRINOLOGY	SIR CHARLES DODDS	Oxford Medical Publications	pp. 84, illus. 18s.
DETOXICATION MECHANISMS: THE METABOLISM AND DETOXICATION OF DRUGS, TOXIC SUBSTANCES AND OTHER COMPOUNDS (second ed., 1960)	TECWYN WILLIAMS, R.	Chapman & Hall, Ltd.	pp. 796, illus. 126s.
RECENT ADVANCES IN BIOCHEMISTRY	GOODWIN, T. W.	J. & A. Churchill, Ltd.	pp. vi + 301, illus. 50s.
THE BILE PIGMENTS	GRAY, C. H.	Methuen & Co., Ltd.	pp. xvi + 142, with diagrams. 9s. 6d.
THE BIOCHEMISTRY OF THE NUCLEIC ACIDS (fourth ed. 1960)	DAVIDSON, J. N.	Methuen & Co., Ltd.	pp. viii + 248, illus. 25s.
CALCIUM METABOLISM	IRVING, J. T.	Methuen & Co., Ltd.	pp. xiii 160, illus. 11s. 6d.
THE CHEMISTRY OF LIPIDS OF BIOCHEMICAL SIGNIFICANCE	LOVERN, J. A.	Methuen & Co., Ltd.	pp. xiv + 158, 12s. 6d.
THE METABOLISM OF SULPHUR COMPOUNDS	YOUNG, L., and MAW, G. A.	Methuen & Co., Ltd.	pp. 180, 16s.

BACTERIOLOGY

AN OUTLINE OF BACTERIOLOGY AND IMMUNITY	HARE, R.	Longmans, Green & Co., Ltd.	pp. 432, with diagrams, 35s.
*HANDBOOK OF BACTERIOLOGY (tenth ed.)	MACKIE and MCCARTNEY	E. & S. Livingstone, Ltd.	pp. 992, illus. 40s.
*TEXTBOOK OF BACTERIOLOGY	FAIRBROTHER, R. W.	William Heinemann Medical Books Ltd.	pp. 512, illus. 25s.
FUNDAMENTALS OF MICROBIOLOGY	FROBISHER, M.	W. B. Saunders, Co., Ltd.	pp. 617, illus. 45s. 6d.
*GENERAL MICROBIOLOGY	STANIER, R. Y., DOUDOROFF, M. and ADELBURG, E. A.	Macmillan & Co., Ltd.	pp. 704, 50s.
APPLIED PHYSIOLOGY AND BACTERIOLOGY	GALLOWAY, L. P.	Leonard Hill (Books), Ltd.	pp. 184, illus. 12s.
ENCYCLOPAEDIA OF MICROSCOPIC STAINS	GURR, E.	Leonard Hill (Books), Ltd.	pp. 500, 95s.
BACTERIA	BISSETT, K. A.	E. & S. Livingstone, Ltd.	pp. 132, illus. 20s.
A PRACTICAL MANUAL OF MEDICAL AND BIOLOGICAL STAINING TECHNIQUES	GURR, E.	Leonard Hill (Books), Ltd.	pp. 451, 42s.

TITLE	AUTHOR	PUBLISHER	FORMAT AND PRICE
THE MICROBIOLOGY OF THE ATMOSPHERE	GREGORY, P. H.	Leonard Hill (Books), Ltd.	pp. 350, illus. 55s. (approx.)
BACTERIAL METABOLISM (third ed.)	STEPHENSON, M.	Longmans, Green & Co., Ltd.	pp. 416, with diagrams. 35s.
TEXTBOOK OF BACTERIOLOGY	BROWNING, C. H., and MACKIE, T. J.	Oxford Medical Publications	pp. 918, illus. 50s.
HANDBOOK OF MICROBIOLOGY	JACOBS, M. B., and GERSTEIN, M. J.	D. Van Nostrand Co., Ltd.	In preparation
GENERAL MICROBIOLOGY	WALTER, W. G., and MCBEE, R. H.	D. Van Nostrand Co., Ltd.	pp. 345, illus. 39s. 6d.
STAPHYLOCOCCUS PYOGENES AND ITS RELATION TO DISEASE	ELEK, S. D.	E. & S. Livingstone, Ltd.	pp. 775, illus. 84s.
THE CYTOLOGY AND LIFE-HISTORY OF BACTERIA	BISSET, K. A.	E. & S. Livingstone, Ltd.	pp. 176, illus. 25s.

PHARMACOGNOSY

*A TEXTBOOK OF PHARMACOGNOSY (fifth ed. 1951)	DENTSON, T. C.	Pitman Medical Publishing Co., Ltd.	pp. 637, illus. 50s.
*EXERCISES IN THE EVALUATION OF DRUGS AND SURGICAL DRESSINGS (1958)	SHELLARD, E. J.	Pitman Medical Publishing Co., Ltd.	pp. 160, illus. Linson, 17s. 6d.
*A TEXTBOOK OF PHARMACOGNOSY (fourth ed. 1960)	WALLIS, T. E.	J. & A. Churchill, Ltd.	pp. 652, illus. 42s.
*A PRACTICAL PHARMACOGNOSY (sixth ed. 1953)	WALLIS, T. E.	J. & A. Churchill, Ltd.	pp. 248, illus. 18s.
*A TEXTBOOK OF PHARMACOGNOSY (eighth ed. July 1961)	TREASE, G. E.	Baillière, Tindall & Cox, Ltd.	pp. 816, illus. 42s.
*PRACTICAL PLANT CHEMISTRY FOR PHARMACY STUDENTS (1957)	SHELLARD, E. J.	Pitman Medical Publishing Co., Ltd.	pp. 150, 17s. 6d.
A TEXTBOOK OF PHARMACOGNOSY	FERGUSON, N. M.	The Macmillan Co., New York	pp. 374, illus. 42s.
PHARMACOGNOSY (fourth ed., October 1961)	CLAUS, E. P.	Henry Kimpton, Ltd.	pp. 650, illus. 105s. (approx.)
MODERN PHARMACOGNOSY (1959)	RAMSTAD, E.	McGraw-Hill Publishing Co., Ltd.	pp. 500, illus. 81s. 6d.
TEXTBOOK OF PHARMACOGNOSY (sixth ed.)	YOUNGKEN, H. W.	McGraw-Hill Publishing Co., Ltd.	pp. 1,063, illus. 66s.
THE MEDICINAL AND POISONOUS PLANTS OF SOUTHERN AND EASTERN AFRICA (second ed. 1961)	WATT, J. M., and BREYER-BRANDNIJK, M.	E. & S. Livingstone, Ltd.	In preparation
THE PLANT ALKALOIDS	HENRY, T. A.	J. & A. Churchill, Ltd.	pp. 828, 63s.
RAUWOLFIA: BOTANY, PHARMACOGNOSY, CHEMISTRY AND PHARMACOLOGY	WOODSON, R. E., YOUNGKEN, H. W., SCHLITTLER, E., and SCHNEIDER, J. A.	J. & A. Churchill, Ltd.	pp. 162, illus. 40s.
POTTER'S NEW CYCLOPAEDIA OF BOTANICAL DRUGS AND PREPARATIONS (seventh ed.)	WREN, R. C.	Sir Isaac Pitman & Sons, Ltd.	pp. xvi + 400, illus. 37s. 6d.

PHARMACOLOGY AND THERAPEUTICS

*AN INTRODUCTION TO PHARMACOLOGY	LEWIS, J. J.	E. & S. Livingstone, Ltd.	pp. 838, illus. 55s.
*PHARMACOLOGY	GADDUM, J. H.	Oxford University Press	pp. 604, illus. 42s.
*CLARK'S APPLIED PHARMACOLOGY (ninth ed.)	WILSON, A., and SCHILD, H. O.	J. & A. Churchill, Ltd.	pp. 750, illus. 50s.
*THE PHARMACOLOGICAL BASIS OF THERAPEUTICS (second ed.)	GOODMAN, L. S., and GILLMAN, A. G.	The Macmillan Co., New York	pp. xiii + 1,831, 122s. 6d.
A CONCISE PHARMACOLOGY AND THERAPEUTICS	HOBART, F. G., and MELTON, G.	Leonard Hill (Books), Ltd.	pp. 234, 21s.
A GLOSSARY OF TERMS USED IN PHARMACOLOGY AND CHEMOTHERAPY	LEWIS, J. J.	Alchemist Publications	pp. 12, 2s.

*Books recommended at one or more Schools of Pharmacy.

TITLE	AUTHOR	PUBLISHER	FORMAT AND PRICE	TITLE	AUTHOR	PUBLISHER	FORMAT AND PRICE
*MEDICINAL CHEMISTRY ANTIBIOTICS: A SURVEY OF THEIR PROPERTIES AND USES	BURGER, A.	Interscience Publishers Ltd. The Pharmaceutical Press	pp. 1,258, illus. 280s. pp. xii + 290, illus. 25s.	PROGRESS IN MEDICINAL CHEMISTRY, VOL. I VOL. II	ELLIS, G. P., and WEST, G. B.	Butterworth & Co., Ltd.	pp. 272, illus. 60s. In preparation
*THE BASIS OF CHEMOTHERAPY (1948)	WORK, T. S., and WORK, E.	Oliver & Boyd, Ltd.	pp. 435, out of print, 26s.	*INTRODUCTION TO CHEMICAL PHARMACOLOGY	BARLOW, R. B.	Methuen & Co., Ltd.	pp. xiv + 344 with diagrams. 35s.
MORPHINE AND ALLIED DRUGS	REYNOLDS, A. K., and RANDALL, L. O.	Oxford Medical Publications.	pp. xiii + 393, illus. 80s.	*RECENT ADVANCES IN PHARMACOLOGY	ROBSON, T. M. and KEELE, C. A.	J. & A. Churchill, Ltd.	pp. 512, illus. 40s.
DEXTRAN: ITS PROPERTIES AND USE IN MEDICINE	SQUIRE, J. R., and others	Blackwell Scientific Publications, Ltd.	pp. vii + 91, 15s.	*THE CHEMISTRY OF DRUGS (third ed. 1959)	EVERS, N. and CALDWELL, D.	Ernest Benn, Ltd.	pp. 415, illus. 84s.
ANTIBIOTICS	PRATT, R., and DUFRENOY, J.	Pitman Medical Publishing Co., Ltd.	pp. 398, illus. 60s.	THE PRINCIPLES OF THERAPEUTICS	BURN, J. H.	Blackwell Scientific Publications, Ltd.	pp. ix + 278, 27s. 6d.
ESSENTIALS OF PHARMACOLOGY (fourth ed. 1961)	OLDHAM, F. K., KELSEY, F. H. and GEILING, E. M. K.	Pitman Medical Publishing Co., Ltd.	pp. 418, 62s.	MEDICINAL CHEMISTRY DRUGS OF CHOICE, 1960-1961	BURGER, A. <i>Edited by</i> MODELL, W.	Interscience Publishers, Ltd. Henry Kimpton, Ltd.	pp. 1,258, illus. 280s. pp. 958, illus. 107s. 6d.
PSYCHOTROPIC DRUGS	GARATTINI, S., and PAOLETTI, R.	D. Van Nostrand, Co., Ltd.	pp. xiv + 600, illus. 95s.	CURRENT CONCEPTS IN DIGITALIS THERAPY	LOWN, B. and LEVINE, S. A.	J. & A. Churchill, Ltd.	pp. 174, illus. 25s.
ANTIBIOTICS: THEIR CHEMISTRY AND NON-MEDICAL USES	GOLDBURG, H. S.	D. Van Nostrand, Co., Ltd.	pp. 608, illus. 112s. 6d.	CHEMOTHERAPY AND THE CENTRAL NERVOUS SYSTEM	MCILWAIN, H.	J. & A. Churchill, Ltd.	pp. 296, illus. 45s.
INTRODUCTION TO CHEMICAL PHARMACOLOGY DRUGS IN THE TREATMENT OF DISEASE (1961)	BARLOW, R. B.	Methuen & Co., Ltd. British Medical Association	pp. xiv + 344, with diagrams, 35s. pp. x + 516, 35s.	THE PHYSIOLOGICAL BASIS OF MEDICAL PRACTICE (seventh ed. 1961)	BEST, G. H., and TAYLOR, N. B.	Baillière, Tindall & Cox, Ltd.	pp. 1,371, illus. 128s.
*RECENT ADVANCES IN PHARMACOLOGY ANTIBIOTICS	ROBSON, J. M., and KEELE, C. A. SIR HOWARD FLOREY, CHAIN, E. B., HEATLY, N. G., JENNINGS, M. A., SANDERS, A. G., ABRAHAM, E. P., and FLOREY, M. E.	J. & A. Churchill, Ltd. Oxford Medical Publications	pp. xxi + 501, illus. 40s. pp. 1,790, illus., two volumes, 168s.	THE ESSENTIALS OF MATERIA MEDICA PHARMACOLOGY AND THERAPEUTICS (eighth ed. 1961)	MICKS, R. H.	J. & A. Churchill, Ltd.	pp. 456, 30s.
THE VITAMIN B COMPLEX	ROBINSON, F. A.	Chapman & Hall, Ltd.	pp. 656, 65s.	CURRENT THERAPY. 1961	<i>Edited by</i> CONN, H. F. <i>Edited by</i> GORDON, H. L.	W. B. Saunders Co., Ltd. Peter Owen, Ltd.	pp. 842, 87s. 6d. pp. 762, 84s.
AN INTRODUCTION TO PHARMACOLOGY AND THERAPEUTICS	GUNN, J. A., and GRAHAM, J. D. P.	Oxford Medical Publications	pp. 338, 18s.	THE NEW CHEMOTHERAPY IN MENTAL ILLNESS		Butterworth & Co., (Publishers) Ltd.	pp. 1,000 (approx.) 75s.
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*BRITISH PHARMACEUTICAL CODEX 1959		The Pharmaceutical Press	pp. xxix + 1301, 70s.
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TRADE REPORT

Prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 26: Demand for a number of items in the CRUDE DRUGS market during the week was maintained at the recently improved level and dealers are now awaiting either quotations for or deliveries of new crop materials to satisfy orders for a number of commodities.

Both African and Cochin varieties of GINGER were advanced, but the Jamaican was unaltered. So also were most of the other spices. GUM ACACIA was down slightly in both positions, and there was some adjustment in KARAYA prices. Chinese MENTHOL continued to ease, and while not matching the big fall of the previous week, spot quotations were down by 2s. per lb. and shipment by 2s. 6d. Tinnevely SENNA LEAVES and PODS were scarce for prompt delivery. Delivery from the port of Tuticorin during June were as follows:

	U.K.	U.S.	EUROPE
	Tons	Tons	Tons
SENNA	—	20	109
LEAVES	2	4	15
PODS	—	—	—

In AROMATIC SEEDS Indian CELERY was in tight supply on the spot; Moroccan CORIANDER was dearer by 12s. per cwt. for shipment and Moroccan FENUGREEK by 5s. on the spot.

Among the ESSENTIAL OILS, PENNYROYAL and ROSEMARY were somewhat scarce and dearer than previously. New crop prices for LAVENDER SPIKE are awaited, meanwhile the spot holders are more willing to shade their prices. There was no LEMONGRASS for prompt delivery and shipment quotations rose another one shilling during the week. Chinese PEPPERMINT was down 2s. per lb. at origin.

The all-round increase in excise duty announced by the Government is expected to affect SACCHARIN to the extent of 8s. 4d. per lb. for the 550 grade and 6s. 8d. for the soluble. Liquid GLUCOSE will be affected by about 2½d. to 3d. per cwt. and powdered by 3½d.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals. One-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ALON. — Micro-crystalline, 14-lb. lots, 31s. 6d. per lb.

p-AMINOSALICYLIC ACID. — SODIUM, 17s. 6d. per kilo for 1,000-kilo lots.

ANTIMONY SALTS.—CHLORIDE SOL., B.P.C., 1934, carboys, 2s. 6½d. lb.; POTASSIUM TARTRATE, 7s. 6d. per lb.; SODIUM TARTRATE, 12s. 6d.

ARECOLINE.—Alkaloid, 51s. per oz.

ASPIRIN. — 5-cwt. lots (in kegs), 4s. 9d. per lb.; 1-cwt., 4s. 11d. CALCIUM SALT, 12s. 6d. per lb.

BORAX.—B.P. grade, 1 ton and upwards: Granular, £56 10s.; crystals, £60; powder, £61; extra fine powder, £62 per ton, all in hessian sacks. Commercial from £46 10s. to £52 per ton, as to type and packing. Dehydrated borax is £60 per ton in paper-lined hessian bags or £59 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

BORIC ACID.—B.P. grade in 1 ton and upwards (per ton): Granular, £91 10s.; crystals, £99 10s.; powder, £97; extra-fine powder, £99 per ton in lined hessian bags,

carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £77 10s. to £87 per ton according to type and packing.

BROMIDES.—Crystals (per lb.):—

	1 cwt.	5 cwt.
	s. d.	s. d.
POTASSIUM	2 6	2 5
SODIUM	2 6	2 5
AMMONIUM	2 10	2 8½

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

CAFFEINE.—ANHYDROUS, less than 50-kilo lots, 33s. 6d. per kilo; MONOHYDRATE, B.P., 34s.; CITRATE, 26s. kilo.

CANTHARADIN.—Per oz. 51s. for 4-oz. lots.

CARMINE.—70s. per lb. for 1-cwt. lots.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHARCOAL.—Medicinal activated, B.P.C. in 1-cwt. lots, £22 10s. per cwt.

CHLORAL HYDRATE. — One-cwt. lots, 4s. 6d. per lb.

CHRYSAROBIN.—Per kilo, 5-kilo lots, 180s.

CITRATES.—Per lb.:

	1 cwt.	5 cwt.
	s. d.	s. d.
SODIUM†	2 7½	2 6½
POTASSIUM†	2 10½	2 9
IRON AND AMMONIUM* ..	3 6½	3 5

†Powder 3d. per lb. more. *Scales 10d. per lb. more.

COUMARIN.—In under 28-lots, 19s. per lb., under 1-cwt., 18s. 6d. per lb.

CREAM OF TARTAR.—Home trade:—1-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4 cwt., 244s.; 1-cwt., 245s. (if supplied in bags deduct 5s.).

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

DEXTROSE. — In bulk, MONOHYDRATE, £76 per ton, delivered; ANHYDROUS, £115 per ton. (Pre new tax rates.)

DICOPHANE (DDT).—One-cwt., 2s. 11½d. per lb.; 1 ton, 2s. 8½d. per lb.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent. 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

DIGOXIN.—100-gm. lots, 78s. per gm.

FORMALDEHYDE.—B.P. solution, 5 drum lots, 755s. per ton in free drums, delivered.

GUAIACOLS. — LIQUID B.P.C., 16s. per lb., for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

HOMATROPINE. — 16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROGEN PEROXIDE. — 27.5 per cent. (by weight), £115 per ton; 35 per cent. £138 in returnable carboys.

LACTIC ACID. — B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. for 5-cwt.

lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots: 12 winchesters, 2s. 8d. per lb.

METHOIN.—B.P., 120s. per lb.

METHYL SALICYLATE. — Five-ton lots, 3s. 2d. per lb.; 1-ton, 3s. 2½d.; 10-cwt., 3s. 3d.; 5-cwt., 3s. 4d.; 1-cwt., 3s. 5d.

OESTRADIOL.—MONOBENZOATE is 16s. per gm.

PHENAZONE.—Imported, 9s. 6d. per lb.

PHENOL. — Ice crystals in drums is 1s. 4½d. per lb. (under 1-ton lots, 1s. 7½d.). Detached crystals, 2d. per lb. above and LIQUID, B.P., ¼d. per lb. below the foregoing prices.

PIPERAZINE.—(50-kilo lots), ADIPATE, 22s. per kilo; CITRATE, 20s. 6d.; HEXAHYDRATE, 17s.; PHOSPHATE, 23s.; TARTRATE, 22s. 6d.

PREDNISONE.—Per gm. 15s. 6d.

PROGESTERONE.—Price is 1s. 6d. per gm.

QUINIDINE.—For 15 kilos or 500 oz. or more:—

Home Trade	Per kilo	Per 100 oz.
	s. d.	s. d.
QUINIDINE	199 1	564 6
SULPHATE	260 8	739 1
ALKALOID cryst. ..	263 9	747 9
ALKALOID precip. ..	223 0	632 1
HYDROCHLORIDE ..	216 11	615 0
HYDROBROMIDE ..	221 9	628 9

Prices include tins and cases and free delivery U.K.

SALICYLAMIDE.—One-cwt., 6s. 3d. per lb.; 5-cwt., 5s. 11d.

SILVER SALTS.—PROTEIN, 1-cwt. lots, 8 per cent., 36s. 3d. per lb.; VITELLIN, 68s. 6d.

STREPTOMYCIN. — DIHYDRO or BASE, 10½d. per gm.

Industrial Chemicals, Solvents

ACETALDEHYDE. — The 100 per cent. is £122 per ton.

ACETATES. — Per ton, spot 1-ton lots: AMYL (technical), £254 and B.S.S., £256. BUTYL, £169; ETHYL, £141; ISOPROPYL, £136.

ACETIC ANHYDRIDE. — 10-ton lots £126 per ton, delivered U.K. in returnable drums; 1-ton, £128.

ACETONE.—One-ton lots spot, £84 per ton in drums.

BENZOLE.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL. — 1-5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

CARBON TETRACHLORIDE. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) in tank car lots from 4s. 8½d. to 4s. 10½d. per gall.; anhydrous in 45 gall. drum lots is 7s. 3d. gall.

METHYL ETHYL KETONE. — One-ton lots, £138 10s. per ton.

NAPHTHALENE.—Nominal home contract prices per ton for phthalic makers are around £40; spot lots £60-£70 ex works. Refined flake or ball scarce at around £80 delivered.

PHTHALATES. — Prices (per ton) one-ton lots: DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £190 10s.; DI-METHYL, £182.

STEARATES. — Spot prices for minimum 1-ton lots:—ALUMINIUM (all grades), 253s. 6d. per cwt., CALCIUM (precipitated), 243s. 6d.; LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (super-fine), 302s.; ZINC, 226s. to 286s. as to grade.

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 14s. 6d. per lb. in bond; shipment, 14s., c.i.f.

ALOE.—Cape primes, spot, 175s. per cwt.; shipment, 155s., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS. — Per lb.: CANADA: Market bare and origin not quoting. COPAIBA: Spot, scarce at 10s., duty paid. PERU: Spot, 8s. 9d. in bond. TOLU (genuine as imported), 30s.; B.P., from 12s. to 17s. 6d. as to analysis.

BELLADONNA. — LEAVES, 1s. 9d. per lb., spot. Dutch for shipment (t.a. not quoted) 2s., c.i.f. ROOT, 0.65 per cent., 1s. 9d. per lb., spot.

BENZON. — Sumatra block, spot £20 to £28 as to quality.

BUCHU.—Spot new crop, 4s. 3d. per lb.; shipment, 4s., c.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS. — Chinese, on stalk, 150s., per cwt., duty paid; Ethiopian, 150s.

CARDAMOMS.—Aleppy greens, 13s. 6d. per lb., spot; shipment, 11s. 6d., c.i.f.

CASCARA. — Spot, 1960 peel, 250s. per cwt., shipment; 1961 peel, for shipment, not quoted.

CASSIA. — *Fistula*, 105s. per cwt.; *lignea* (whole), spot 420s., duty paid.

CHAMOMILE.—Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK. — Thin natural, 2s. per lb.

CHILLIES. — Nigerian, 185s. per cwt. Mombasa, 350s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 3¼d.; 3 O's, 4s. 9¾d.; O, 4s. 6¼d.; quillings, 3s. 3¼d.; featherings, 1s. 6¼d.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 7¼d., c.i.f.

COCHINEAL.—Black-brilliant, 10s. 6d. per lb., spot; Peruvian silver-grey, 4s. 6d.

COCCILLANA. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — *Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ELEMI.—Spot, 2s. 1d. per lb. Shipment, 1s. 11d., c.i.f.

ERGOT. — Portuguese 7s. 6d. per lb., c.i.f., for prompt shipment; spot, 8s.

FRANGULA.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot, French, 150s. per cwt.

GINGER.—African, spot, 200s.; new crop for shipment, 200s. per cwt., c.i.f. Jamaican No. 3, spot, 230s. Cochin, shipment, 135s., c.i.f.; spot, 145s. (per cwt.).

GUM ACACIA. — Kordofan cleaned sorts, 144s. per cwt., spot; new crop, July–August shipment, 129s., c.i.f.

HENNA. — Indian, spot, 87s. 6d. per cwt.; shipment, 62s. 6d., c.i.f.

HONEY. — Australian light amber, 102s. 6d. to 107s. 6d. per cwt. and medium amber, 96s. to 98s. Argentine, 112s. to 115s. Jamaican, 115s. to 120s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Costa Rican, 68s. 6d.; Matto Grosso, 51s.; Colombian, 49s. 6d. to 53s. Spot: Matto Grosso, 53s. 6d.; Colombian, 54s.

JUNIPER BERRIES. — Italian, 100s. per cwt.; German, 120s.

KARAYA. — No. 1 gum, spot 300s. per cwt.; No. 2, 235s.

LINSEED.—Whole, 70s. to 75s. per cwt.; crushed, 105s.

LIQUORICE. — Natural root; Persian on the spot, 40s. per cwt.; Anatolian, 60s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 8s. 9d. per lb. Dutch not offering.

LYCOPodium.—Indian 15s. per lb., spot. Russian not quoted.

MACE.—Whole pale blade, 22s. per lb., spot.

MENTHOL. — Chinese: spot, 68s. per lb., duty paid; shipment, 55s., c.i.f. Brazilian, 46s. 6d., in bond, shipment, 44s. 6d., c.i.f. (September–October). Formosan, 49s., in bond; shipment, 47s. 9d., c.i.f.

MERCURY. — About £65 per flask of 76-lb.

NUTMEGS. — West Indian 80's 12s. per lb., spot: sound unassorted, 8s. 9d.; defectives, 6s. 6d.

NUX VOMICA. — Shipment (per cwt.), Cochin 70s., c.i.f.; Madras, 65s., c.i.f.

ORANGE PEEL. — Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian 11d.; Spanish, 1s.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PAPAIN. — Tanganyikan, 14s. 6d. per lb., c.i.f., for grade one; spot 15s. Congo, 12s. 6d., c.i.f. Ceylon brown, 15s., c.i.f.

PEPPER. — White Sarawak, spot, 3s. 7d. per lb.; shipment, 3s. 6½d., c.i.f. Black Sarawak, spot, 3s. 1½d.; shipment, 2s. 11¼d., c.i.f. Black Malabar, 400s. per cwt. spot nominal and 375s., c.i.f.

QUILLAIA. — Shipment, 175s. per cwt., c.i.f., spot nominal.

RHUBARB.—Chinese small rounds from 5s. 6d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 140s. per lb., spot.

SEEDS.—(Per cwt.). ANISE.—Cyprian, 200s., spot nominal. CARAWAY. — Dutch, 140s., duty paid. CELERY.—Indian short on spot with 200s. quoted nominally; shipment now 195s., c.i.f. CORIANDER. — Moroccan, 130s., duty paid; shipment dearer at 120s., c.i.f. CUMIN.—Indian, 175s. spot; Iranian, 170s., duty paid. DILL. — Indian, 100s. spot; 97s. 6d. paid; shipment, 88s., c.i.f., quoted. FENNEL.—Chinese, 105s., duty paid; Indian, 100s., spot. FENUGREEK.—Moroccan firm at 95s., duty paid; shipment, 87s. 6d., c.i.f. MUSTARD. — English, 50s. to 82s. 6d., according to quality.

SENEGA.—Spot, 20s. per lb.; shipment, 17s. 6d., c.i.f.

SENNA. — *Timnevelly* LEAVES, prime No. 1 and f.a.q. No. 3, cleared. PODS: manufacturing (f.a.q.), 11d., nominal and hand-picked, 1s. 6d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; hand-picked, 4s. 6d. to 7s. 6d. per lb.

SHELLAC. — F.O.T.N., 200s. per cwt.; No. 1, 220s.; F.O., 235s. to 285s. spot.

TRAGACANTH.—No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

VALERIAN ROOT.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch new crop prices awaited.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 455s.; shipment, 415s., c.i.f. Abyssinian, 390s. in bond; shipment 370s., c.i.f. Sudanese, spot, 410s. nominal; shipment, 370s., c.i.f. CANDELLA, spot, 465s. CARNAUBA, fatty grey, spot, 450s.; shipment, 435s., c.i.f.; prime yellow, spot, 700s. quoted; shipment, 675s., c.i.f.

WITCH HAZEL LEAVES. — New crop not yet offering.

Essential and Expressed Oils

BERGAMOT.—Spot, from 72s. 6d. per lb.

BIRCH TAR.—Rectified 10s. 6d. per lb.

BOIS DE ROSE.—Brazilian, 13s. 6d. per lb. on the spot and 12s. 6d., c.i.f.

CADE. — Spanish, 3s. 6d. per lb. for drum lots.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

CAMPOR, WHITE.—Chinese, 1s. 9d. per lb. in bond; 1s. 6d., c.i.f.

CANANGA.—Spot, from 37s. 6d. per lb.

CARAWAY.—Imported oil, 33s. 6d. per lb.

CARDAMOM. — From 350s. per lb. for English-distilled and 260s. for imported.

CEDARWOOD.—American rectified 8s. per lb. on the spot.

CELERY SEED. — Dutch oil, 90s. per lb. and Chinese, 65s.

CHAMOMILE.—Small 800s. per lb.

CINNAMON. — From quillings, best English-distilled is 650s. per lb.; other B.P. oils from 85s. per lb. Ceylon leaf, spot, 9s. 6d. per lb.; Seychelles, 7s., spot.

CITRONELLA. — Ceylon, spot, 6s. 4½d.; shipment, 5s. 11d. per lb., c.i.f. Formosan, spot, 6s. 9d., in bond; shipment, 6s. 8d., c.i.f.

CUBEB.—Small spot supplies of imported are 65s. per lb.; English, 90s.

CUMIN. — Imported oil, 90s. per lb.; English-distilled, 85s.

LAVENDER SPIKE.—Spanish, 10s. 6d. per lb. for original drums.

LEMONGRASS. — Spot and afloat cleared. July–August, 17s. 6d., c.i.f.

OLIVE. — Spot, 19s. 3d. to 20s. 3d. per gall. in drums ex wharf; shipment, £190–£205 per 1,000 kilos, f.o.b. Spanish port.

ORANGE.—Spot quotations of sweet oil include Floridan at 3s. 6d. per lb.; West Indian, 3s. 6d.; Israeli, 7s. 6d., nominal; Californian, 5s. 3d. to 7s. 6d.

OTTO OF ROSE.—Bulgarian, 400s. per oz. Turkish, £350 per kilo.

PENNYROYAL. — Spot is firm at 20s. per lb., duty paid.

PEPPERMINT. — *Arvensis*: Chinese spot, 35s.; shipment, 28s., c.i.f. Brazilian spot, 15s. 6d.; July shipment, 15s., c.i.f. *Piperita*: Italian, 48s. per lb., spot. American from 30s. to 45s. per lb. as to make.

ROSEMARY.—Spanish is 9s. per lb. on the spot for best quality.

RUE.—Spanish is 19s. 6d. per lb. spot.

SANDALWOOD. — Mysore 155s. to 160s. per lb. East Indian 152s. 6d. to 155s.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—American oil on the spot 30s. per lb.

TANGERINE.—From 33s. per lb. as to quality.

VETIVERT. — Bourbon spot, 110s. to 112s. 6d. per lb.; shipment, 108s., c.i.f.

YLANG YLANG.—Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, JULY 25: Three cents lower per lb. was N.F. grade TERPIN HYDRATE at 55 cents. Natural powdered CAMPHOR from Japan declined by three cents to 60 cents a lb. despite the recent advance in synthetic camphor. Also cheaper was Brazilian MENTHOL at \$7.10 a lb., down ten cents. Better demand caused a rise in BUCHU to 68 cents a lb., up three cents. Among ESSENTIAL OILS, Italian LEMON was reported to be strong and active. The price moved up to \$5.15 per lb., up 20 cents. Also higher per lb. was East Indian LEMONGRASS at \$3.20, up 50 cents.

WORLD TRADE

Spain Liberalising Imports. — A list of imports which Spain is liberalising from September 1, under the O.E.E.C. agreement, includes chemicals, microscopes and medical instruments.

European Industrial Performance. — The largest companies in the European Common Market showed greater sales gains in 1960 than companies in the "Outer Seven" group, according to the American *Fortune* magazine. In its fifth annual directory of the 100 largest non-American industrial companies, the magazine said that forty companies in the Common Market area that had been on the 1959 list increased their sales by 19.1 per cent., while 34 companies in the Outer Seven area showed a gain of 10.7 per cent. Total sales gains of more than 10 per cent. were registered by twenty-nine British companies, eleven French and three each from Sweden, Holland and Belgium/Luxembourg. Five Japanese companies reported an average sales increase of 27.5 per cent. Three Italian companies showed an aggregate gain of 20.3 per cent. and nineteen German companies an average gain of 22.5 per cent.

PRINT AND PUBLICITY

PUBLICATIONS

Catalogues and Booklets

VICTOR BLAGDEN & CO., LTD., Plantation House, Mincing Lane, London, E.C.3: Range of chemicals available (1962 edition). Pp. 32.

JAPANESE CAMERAS, LTD., 50 Piccadilly, Stoke-on-Trent, Staffs: Catalogue 1961, 3rd edition. Pp. 36. Price 9d.

JOHNSON, MATTHEY & CO., LTD., 73 Hatton Garden, London, E.C.1: Data sheets describing products for the electrodeposition of silver, gold, palladium, rhodium and platinum.

PHOTOPIA, LTD., Hempstalls Lane, Newcastle, Staffs: Catalogue 1962, 3rd edition. Pp. 96. Price 1s.

SANGERS, LTD., 258 Euston Road, London, N.W.1: Photographic Catalogue 1961. Pp. 145. Available from branches of Messrs. Sangers, Southall Bros. & Barclay, Ltd., and associated companies.

HENRY WIGGIN & CO., LTD., Wiggin Street, Birmingham, 16: Wiggin high-nickel alloys in pickling plant. Pp. 28.

Periodicals

THE INTERNATIONAL NICKEL CO. (MOND), LTD., Thames House, Millbank, London, S.W.1: *The Nickel Bulletin*, Vol. 34, No. 5, Pp. 139.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: *The Roche Courier*, Vol. 27, No. 7, Pp. 4.

THE PULLIN OPTICAL CO., LTD., Ellis House, Aintree Road, Perivale, Greenford, Middlesex: *Pullin Newsletter*, Vol. 9, No. 5, July, Pp. 6.

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, 11 Charles II Street, London, S.W.1: *Atom*, No. 57, July, Pp. 32.

Price Lists

CHESEBROUGH-POND'S, LTD., Victoria Road, London, N.W.10: Price list, July, Pp. 4.

EVANS MEDICAL, LTD., Speke, Liverpool, 24: List A—drugs, fine chemicals, pharmaceuticals, counter adjuncts, medical and veterinary products, July, Pp. 95.

PRESS ADVERTISING

DOMESTOS, LTD., College Works, Albion Road, Newcastle-on-Tyne: Domestos. In *Daily Mirror*, *London Evening News*, *People*, *Woman*, *Woman and Home*, *Good Housekeeping*, and 196 provincial newspapers.

EVER-READY RAZOR PRODUCTS, LTD., 26 Bedford Row, London, W.C.1: Pal Injecto-matic razor. In *Daily Express*, *Daily Mirror*, *Daily Herald*, *People*, *Reveille*, *Weekend*, *Tiibits*, *Parade*, July-December.

GERHARDT-PENICK, LTD., Thornton Laboratories, Purley Way, Croydon: Tums. In *The Times*, *Daily Express*, *Daily Mirror*, *Daily Herald*, *Daily Mail*, *Sunday Telegraph*, *Sunday Express*, *Sunday Pictorial*, *News of the World*, *Belfast Telegraph*.

GOLDEN, LTD., 7 Grosvenor Street, London, W.1: Ambre Solaire. In *Daily Express*, *Daily Mail*, *Daily Telegraph*, *Sunday Times*.

POTTER & MOORE, LTD., Lavender House, Seymour Road, London, E.10: Go perfumed stick and spray deodorants. In *Daily Mirror*, *Daily Telegraph*.

SMITH & NEPHEW, LTD., Bessemer Road, Welwyn Garden City, Herts: Elastoplast. In *Daily Express*, *Daily Mirror*, *Daily Mail*, *Daily Herald*; Nivea. In *Daily Express*, *Daily Mirror*, *Woman*, *Woman's Own*, *Woman's Mirror*; Pretty Feet. In *Woman's Realm*, *Woman's Mirror*, *Daily Mirror*, *Sunday Pictorial*; Sunca. In *Daily Express*, *Daily Mirror*, *Sunday Pictorial*, July-August.



Elegant new soap "tumble" basket available for display purposes from Morny, Ltd., 22 Wadsworth Road, Perivale, Middlesex.

WILLS

MR. J. P. CRAINE, M.P.S., 104 Northgate Street, Chester, left £22,164 (£19,040 net).

MRS. MARJORIE DUNN, M.P.S., Stone House, Bakewell, Derbyshire, left £32,949 (£32,797 net).

MR. T. HARPER, M.P.S., 158 Dyke Road, Brighton, 5, Sussex, left £10,324 (£10,146 net).

MR. J. W. HUDDART, M.P.S., 124 West Park Drive, Blackpool, Lancs, left £17,955 (£16,581 net).

MR. D. GROOM, M.P.S., 10 Welbeck Road, Doncaster, Yorks, left £10,176 (£7,307 net).

MR. E. N. OWEN, M.P.S., Emerys, Bird Lane, Upminster Common, Essex, left £7,722 (£7,666 net).

MRS. SHEILA A. C. PARKINSON, M.P.S., 153 Chignall Road, Chelmsford, Essex, left £862 (£811 net).

MR. W. E. N. PARTRIDGE, M.P.S., 13 Broadoak Road, Weston-super-Mare, Somerset, left £23,356 (£10,127 net).

MR. P. S. REED, M.P.S., 410 Green Lanes, London, N.13, left £20,749 (£20,499 net).

MR. J. R. SARSON, M.P.S., 11 Shorton Road, Paignton, Devon, left £17,542 (£17,414 net).

MR. J. H. SHEPHERD, M.P.S., 93 Burton Road, Woodville, Burton-on-Trent, Staffs, left £11,799 (£11,693 net).

MR. F. T. SMITH, J.P., M.P.S.N.I., Dumsia, Antrim, co. Antrim, Northern Ireland, left personal estate in England and estate in Northern Ireland valued at £13,480.

MR. J. R. WARD, M.P.S., 11 Buckingham Road, Andsell, Lytham St. Anne's, Lancs, left £5,443 (£5,055 net).

MR. A. G. WATKINS, M.P.S., Hainault, 35 Laburnham Road, Maidenhead, Berks, left £6,740 (£6,691 net).

MR. J. A. WIGHTMAN, M.P.S., 56 Rodney Road, West Bridgford, Notts, left £5,397 (£3,815 net).

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward
August 6-12										
Aidex ..	—	1	1	1	1	1	—	1	—	—
Alka-Seltzer ..	10	10	15	5	4	7	4	7	4	3
Amami ..	—	3	3	—	6	—	—	4	3	—
Anadin ..	—	1	3	—	5	4	5	6	1	—
Andrews liver salt	2	3	4	2	2	2	3	3	3	3
Andrex ..	—	—	—	—	3	—	—	—	—	—
Anne French ..	1	—	—	1	—	—	—	—	—	—
Askit powders ..	—	—	—	12	—	—	—	—	—	—
Body Mist ..	4	3	2	2	1	1	—	—	—	—
Bristow shampoo	2	1	2	3	—	1	1	3	—	4
Brylcreem ..	3	3	3	2	4	2	1	2	3	3
Coldrex ..	—	1	1	2	1	—	—	1	—	—
Cooper's aerosols	2	2	2	3	2	2	2	2	2	2
Cuticura ..	—	2	—	2	—	—	2	—	2	—
Delrosa ..	—	—	—	—	—	—	—	—	1	—
Delsey ..	—	1	3	3	—	4	4	4	3	4
Dispel disinfectant	—	—	—	1	—	—	—	—	—	—
Domestos ..	3	3	3	4	3	3	3	3	3	5
Dorant mouthwash	—	—	—	—	—	1	—	—	—	—
Dramal ..	1	1	1	2	3	3	2	2	2	2
Elliman's foot cream	1	1	—	—	—	—	—	—	—	—
Eno's fruit salt..	2	2	2	2	2	2	2	2	2	2
Euthymol ..	—	—	1	1	1	1	—	1	—	—
Ex-Lax ..	—	—	—	2	—	—	—	—	—	2
Freezone ..	—	—	1	—	—	—	1	—	—	—
Hiltone ..	2	—	1	4	1	—	3	—	—	—
Immac ..	2	2	2	3	1	2	1	2	2	—
Imperial Leather soap	3	4	4	3	3	3	4	2	3	3
Lanospray ..	2	2	2	2	2	2	2	2	3	2
Loxene hair cream	—	—	—	—	—	—	—	—	—	1
Macleans tooth-paste	—	1	3	8	6	6	5	3	3	3
Mark Vardy ..	—	—	6	—	—	—	—	—	—	—
Milk of Magnesia tablets	1	—	—	—	—	—	—	—	2	—
One-two spray ..	—	1	2	—	—	—	—	—	3	2
Phillips tooth-paste	1	—	—	—	—	—	—	—	—	—
Poppet ..	5	—	—	2	—	—	—	—	—	4
Pretty Quick ..	—	—	4	—	—	—	—	—	—	—
Q-tips ..	—	—	—	—	2	—	—	—	—	—
Rennies ..	2	2	4	4	3	7	3	3	—	4
Rinstead pastilles	1	2	—	1	1	2	1	1	1	—
Rosedale colour spray	—	—	—	—	—	1	—	—	—	—
Schick shavers ..	1	1	—	—	—	—	—	—	—	—
Sebbix ..	1	1	1	1	1	1	1	1	1	1
Sek ..	—	1	1	—	—	—	—	—	—	—
Silvikrin pure hair cream	2	2	1	—	—	—	—	—	—	—
shampoo ..	4	3	2	3	2	5	2	2	3	3
Span shampoo ..	3	3	2	3	3	4	—	2	2	3
Star Spray ..	3	—	—	6	—	—	—	—	—	—
Unic shavers ..	4	2	3	—	1	2	—	—	—	—
Valderma ..	3	1	—	—	—	—	—	—	—	—
Valpeda ..	3	2	3	—	4	2	3	—	—	—
Veet "O" ..	1	—	3	—	—	—	—	—	—	—
Vosene ..	3	2	2	—	—	—	—	—	—	—
Winspray ..	2	1	1	—	—	—	1	—	—	1

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Advance Information

JOURNEES PHARMACUTIQUES FRANCAISES, Faculté de Pharmacie, 4 Avenue de l'Observatoire, Paris, 6, September 25-29. Symposia on corticosteroids, pharmaceutical sciences and ocean culture, Portuguese pharmacy, and drugs of vegetable origin. Practical demonstrations in pharmacodynamics, clinical chemistry and bacteriology.

MAC 61, SALON DE L'APPAREILLAGE CHIMIQUE, Milan, Italy, September 30 to October 8.

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Window-display publicity week, October 8-14.

UTRECHT INTERNATIONAL AUTUMN FAIR, Vredenburg buildings, Utrecht, Holland, September 11-16.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

- From the "Trade Marks Journal," July 12
- For pharmaceutical preparations containing vitamins, for use in the treatment of colds (5)
VITCOLD, 816,708, by Beecham Pharmaceuticals, Ltd., St. Helens, Lancs.
- For antibiotics (5)
IRAPEN, 818,652, by Lovens Kemiske Fabriks Handelsaktieselskab, Ballerup, nr. Copenhagen, Denmark.
- For veterinary medicines for admixture with poultry rations (5)
CARB-O-SEP, 817,970, by Whitmoyr-Reed, Ltd., Barking, Essex.
- For preparations for use in the treatment and prevention of coccidiosis in poultry (5)
WHITSYN, 817,971, by Whitmoyr-Reed, Ltd., Barking, Essex.
- For herbicides, germicides, fungicides, insecticides and preparations for killing weeds (5)
RYBOPHEN, 818,522, by J. W. Chafer, Ltd., Doncaster.
- For medicinal and pharmaceutical preparations (5)
RENCAL, 819,350, by E. R. Squibb & Sons, Ltd., London, W.1.
- For photographic and cinematographic apparatus and instruments, and parts and fittings (9)
IRINA, 819,560, by Agfa, A.G., Leverkusen-Bayerwerk, Germany.
- For lighting installations and apparatus and parts, being for photographic and cinematographic purposes (11)
SPECTOSUN, 817,512, by Specto, Ltd., Windsor, Berks.
- For tooth-brush holders; soap boxes and soap dishes; hair brushes, tooth-brushes, clothes brushes and shoe brushes; hair combs; combs and brushes, all for animals; and thermally-insulated containers for food and for beverages, etc. (21)
Device with words HUCKLEBERRY HOUND AND FRIENDS, 809,895, and Device, 812,234, by Screen Gems, Inc., New York, U.S.A.

From the "Trade Marks Journal," July 19

- For sensitised film for photographic purposes (1)
Device, 813,416, by Alcott-King Film Organisation, Ltd., London, W.C.2.
- For photographic chemicals (1)
ROBOR, 815,874, by Robor, Ltd., Haywards Heath, Sussex.
- For all goods for use in photography (1)
X-OMAT, 818,380, by Kodak, Ltd., London, W.C.2.
- For cosmetic preparations (not being toilet preparations) for imparting a tan to the skin (3)
LIQUISUN, 805,307, by Ellanby Laboratories, Ltd., London, W.1.
- For perfumes; and face powder in powder or block form or in leaf form, foundation creams, foundation liquids, lipstick and nail varnish, all being cosmetic preparations (3)
COOL, B806,126, by Miners Make Up, Ltd., Surbiton, Surrey.
- For preparations for removing kinks from hair (3)
KWAY, 812,765, by Kurland, Ltd., London, W.1.
- For non-medicated toilet preparations and cosmetic preparations, all for export but not including goods for export to and sale in the Irish Republic (3)
Device with word NULON, 814,849, by Reckitt, Colman, Chiswick (Overseas), Ltd., Hull, Yorks.
- For soaps, perfumes, non-medicated toilet preparations and cosmetic preparations (3)
FRESHMEN, 816,011, by Myram Picker, Ltd., Surbiton, Surrey.
- For all goods (3)
GYRO, 816,968, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne. BRENTX, 818,450, by Brentford Soap Co., Ltd., Brentford, Middlesex.
- For non-medicated toilet preparations (3)
BLUE PETER, 817,346, by Ingasetter, Ltd., Banchory, Kincardineshire, Scotland.
- For cleaning, polishing, scouring and abrasive preparations; preparations and substances for laundry use; and soaps (3)
EDENITE, 817,644, by R. P. Adam, Ltd., Galashiels, Scotland.

For non-medicated toilet preparations, cosmetic preparations, brilliantine, hair lotions, toilet shampoos, dentifrices, soaps and toilet articles (not included in other classes) (3)

TAFFETA MIST, 818,954, by Charles Bedeman, Ltd., London, S.E.15.

For soaps, perfumes, non-medicated toilet preparations, essential oils, cosmetics, hair lotions and dentifrices (3)

EIPON, 817,915, by Wella Rapid, Ltd., London, N.W.1.

For pharmaceutical preparations and substances, but not including medicated toilet paper or any goods of the same description (5)

AQUASOLVIT, 808,1668, by A.B. Astra, Apotekarnes Kemiska Fabriker, Södertälje, Sweden.

For pharmaceutical preparations and substances (5)

DEMETRIN, 809,063, by Warner-Lambert Pharmaceutical Co., Morris Plains, New Jersey, U.S.A.

For pharmaceutical preparations containing amines (5)

LAURAMINE, 809,471, by Dutton & Reinisch, Ltd., London, S.W.1.

For mint-flavoured medicated chewing gum, and mouth-deodorising preparations, all containing chlorophyll (5)

CLORETS, 811,881, by American Chicle Co., Long Island City, New York, U.S.A.

For pharmaceutical preparations for human and veterinary use as appetite inhibitors (5)

CLEOFIL, 812,169, by CIBA, Ltd., Basle, Switzerland.

For all goods (5)

SOFRAMIX-K, 809,810, by Les Laboratoires Français de Chimiothérapie, S.A., Paris 7e, France. FLUROGARD, B812,991, by County Laboratories, Ltd., Brentford, Middlesex. NARTRATE, 814,210, by Warner-Lambert Pharmaceutical Co., Morris Plains, New Jersey, U.S.A. Device with word CONTOUR, 814,885, by A. Wander, Ltd., London, W.1. SEDNINE, 820,242, by Allen & Hanburys, Ltd., London, E.2. Device, 818,477, by Fisons Horticulture, Ltd., Felixstowe, Suffolk.

For pharmaceutical preparations and substances, all for veterinary use and containing iron (5)

NAEFERIN, 814,655, by Thomas Kerfoot & Co., Ltd., Bardsley, Lancs.

For disinfectants in liquid form (5)

Device, 815,381, by Tunstall & Co., Ltd., Leeds, 12, Yorks.

For photographic apparatus and instruments; objectives (lenses) for photographic cameras, projection apparatus, microscopes, telescopes and field glasses; etc. (9)

LEICINA, 817,413, SUMMILUX, 817,415, by Ernst Leitz, G.m.b.H., Wetzlar, Germany.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," July 19

Peptides and preparations thereof. CIBA, Ltd. 876,570.

Polypeptides and derivatives thereof and the manufacture thereof. CIBA, Ltd. 876,570.

Manufacture of sulphonyl-ureas. Farbwerke Hoechst. 876,608.

Antifungal antibiotic antifongine 4915 and compositions thereof. Laboratoires Français de Chimiothérapie. 876,639.

Organic salts of substituted quinolines and process for the manufacture thereof. Chemische Fabrik Schweizerhall. 876,678.

Pharmaceutical compositions containing amino-anthrapyrimidines. Imperial Chemical Industries. 876,719.

Steroid compounds. Soc. Farmaceutica Italia. 876,721.

Substances having antibiotic activity. Beecham Research Laboratories. 876,508.

Derivatives of 3:4-dihydro-1:2:4-benzothiadiazine-1:1-dioxide and process for their manufacture. CIBA, Ltd. 876,755.

Dehydrosteroids and pharmaceutical preparations containing them. CIBA, Ltd. 876,810.

Method of preparing a gel using a carboxymethyl dextran. Clarkson, A. H. (Commonwealth Engineering Co.). 876,927.

Preparation of acetonedicarboxylic acid and esters thereof. Pfizer & Co., Inc., Chas. 876,487.

Process for preparing an antibiotic designated FI.

1163. Soc. Farmaceutica Italia. 876,635.

Thioglycolic acid derivative and process for the production thereof. Uclaf. 876,966.

Reserpine acid esters and process for their manufacture. CIBA, Ltd. 876,717.

Process for the production of aminobenzoic acid derivatives and their use in pest control. Geigy, A.G. 876,526.

Preparation and recovery of esters of acetonedicarboxylic acid. Pfizer & Co. Inc., Chas. 876,488.

Substituted 6-deoxytetracyclines. American Cyanamid Co. 876,500.

Dihydroxy-2H-V triazolo-[α] pyrimidine derivatives. Sterling Drug Inc. 876,694.

Pyrimidine derivatives. Imperial Chemical Industries. 876,601.

Fermentative process for producing L-glutamic acid. Ajinomoto Co., Inc. 876,943.

Process for preparing hydroxymethyl furfural. Atlas Powder Co. 876,463.

Tertiary amines. Farbenfabriken Bayer, A.G. 876,465.

Carbamic acid esters and means of producing same. Parke, Davis & Co. 876,588.

Antibacterial agents. Beecham Research Laboratories, Ltd. 876,516 and 876,662.

Cyclopentophenanthrene derivatives and process for the manufacture thereof. Syntex, S.A. 876,986.

Cyclopentophenanthrene derivatives and process for the production thereof. Syntex, S.A. 876,902.

Thiocyanhydrins of the steroid series and a process for their manufacture. Schering, A.G. 876,634.

Cyclopentanophenanthrene derivatives and process for the production thereof. Syntex, S.A. 876,903.

Steroids and the manufacture thereof. Upjohn, Ltd. 876,512.

Phosphatic fertilisers. Fisons Fertilizers, Ltd. 876,563 and 876,564.

Process for the production of aminobenzoic acid derivatives and their use in pest control. Geigy, A.G. 876,526.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

THE PYRETHRINS. Biosynthesis of, *Nature*, July 15.

PHARMACOLOGY of the alkaloidal fraction from the bark of the Jamaican shade tree *Pithecolobium samath* benth. *Nature*, July 15.

ISOLATION of VIRUSES from children with infectious hepatitis. *Science*, June 30.

GIBBERELLIN as sex regulator in *Ricinus communis*. *Science*, June 30.

FREEZING-OUT, a safe technique for concentration of dilute solutions. *Science*, June 30.

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A BACTERIOPHAGE specific for *F-Salmonella* strains. *Science*, June 30.

GENERAL ANESTHESIA. A molecular theory of, *Science*, July 7.

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THIO-DIGLYCOLIC ACID. Anticancer properties of, *Nature*, July 22.

A SEALING COMPOUND for use in biological work. *Nature*, July 22.

ACTIVATION of amino-acids in micro-organisms which produce antibiotics. *Nature*, July 22.

FUMAGILLIN. Induced increase in resistance of *Entamoeba histolytica* to, *Nature*, July 22.

p-FLUOROPHENYLALANINE. Effect of, on the multiplication of foot-and-mouth disease virus. *Nature*, July 22.

PENBRITIN — A new broad-spectrum antibiotic. *Brit. med. J.*, July 22.

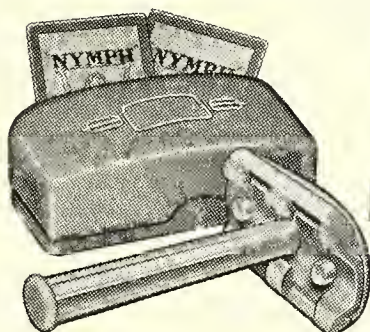
ADENOSINE-5-MONOPHOSPHORIC ACID. The therapeutic effect of, in porphyria. *Lancet*, July 22.

POLYMYXIN B. Intraventricular administration of a new derivative of polymyxin B in meningitis due to *Ps. pyocyanea*. *Lancet*, July 22.

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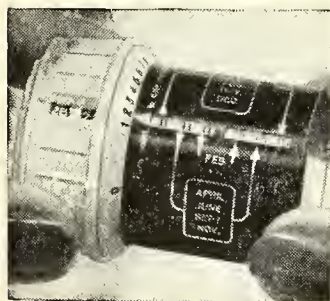


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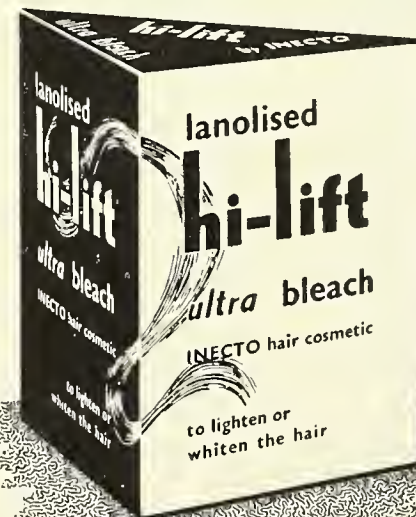


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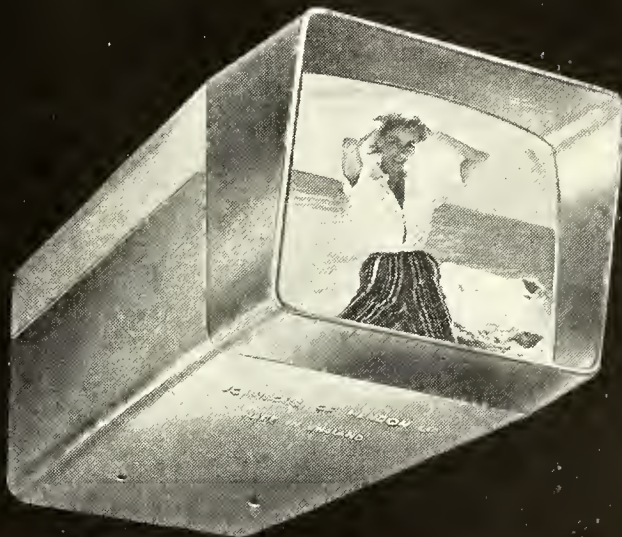
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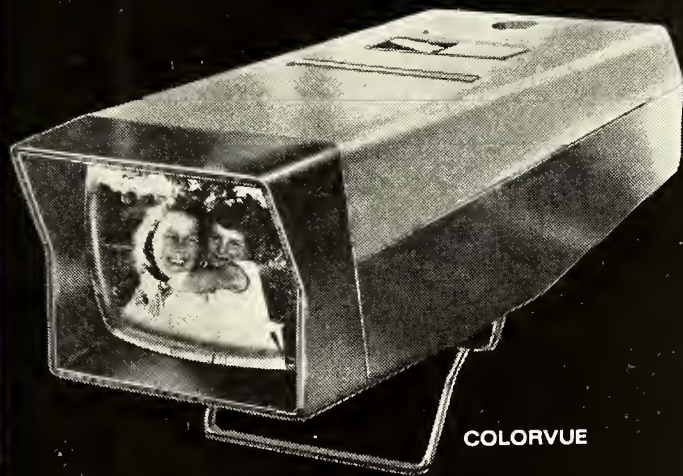
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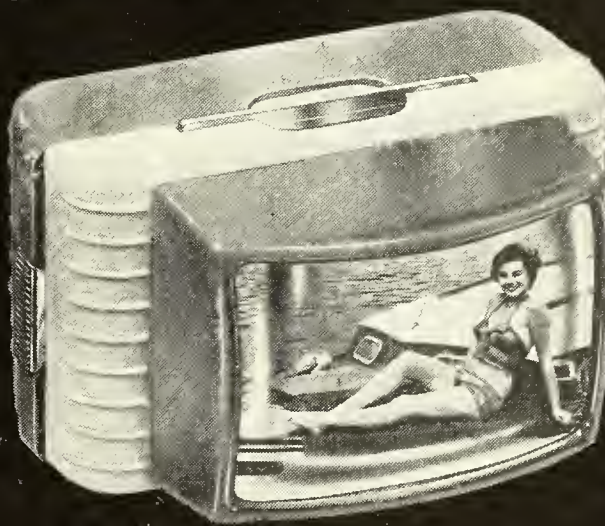
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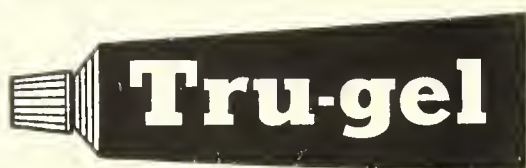
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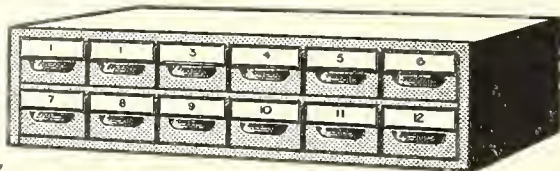


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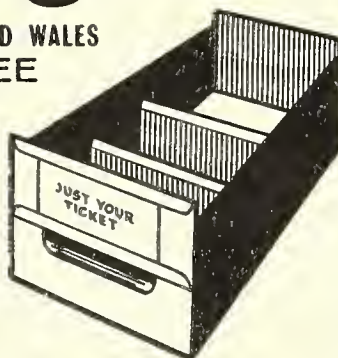


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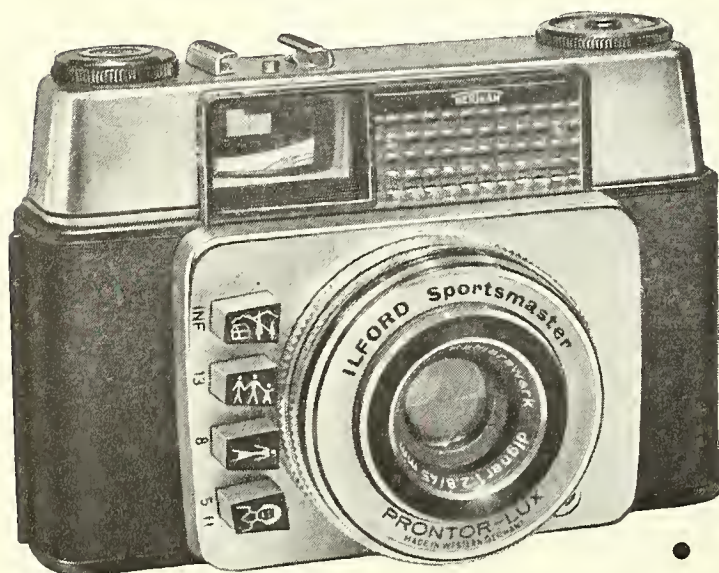


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**BURTON-ON-TRENT HOSPITAL
MANAGEMENT COMMITTEE,
GENERAL HOSPITAL,
BURTON-ON-TRENT**

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S. D. EVANS,
Group Secretary.
C 6757

**ANCOATS HOSPITAL,
MANCHESTER, 4**

Locum Pharmacist

required immediately. Salary £18 18s. per week. Applications to General Superintendent (Dept. C). C 6735

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

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ST. DUNSTAN'S ROAD,
HAMMERSMITH, W.6**

Part-time Pharmacist

required for 1 or 2 afternoon sessions a week. Applications to Secretary. C 6748

CHARING CROSS GROUP OF HOSPITALS,

**FULHAM HOSPITAL,
ST. DUNSTAN'S ROAD,
HAMMERSMITH, W.6**

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required. Whitley Council salary scale and conditions. Hospital is within 5 minutes' walk of Hammersmith Station. Applications to Secretary. C 6749

CITY GENERAL HOSPITAL, SHEFFIELD, 5

(Category V Hospital)

Senior Pharmacist

Applications are invited for the above appointment. Post offers a wide variety of interest and experience in a busy general hospital situated in the suburbs of Sheffield. Accommodation can be made available to a female applicant for which an appropriate charge will be made. Whitley Council salary scale and conditions of service. Apply, giving full details of age, experience, etc., and the names of two persons for reference, to the Group Secretary, Sheffield No. 1 Hospital Management Committee, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 6754

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(21 miles from London)

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Locum Chief Pharmacist

required at the above hospital 20 miles from Central London for two weeks from September 3, 1961. Salary £22 1s. per week. Accommodation may be available for single man, if required. Applications stating qualifications and experience and naming two referees to the Hospital Secretary. C 6712

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required at the above hospital. New department to be opened shortly. Whitley Council salary scale and conditions of service. Applications in writing stating age, qualifications, experience and details of previous employment, together with the names of two referees, to be sent to the Chief Pharmacist. C 6687

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MANAGEMENT COMMITTEE,
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MEDICAL UNIT,
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**SPRINGFIELD HOSPITAL,
LONDON, S.W.17**

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required, permanent appointment. Salary £770 £1,010 per annum plus London Weighting. Applications to Group Secretary, Springfield Hospital, Beechcroft Road, London, S.W.17, giving age, qualifications, details of experience and the names of two referees. C 567

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ST. PHILIP'S HOSPITALS**

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required from 14th to 26th August. Applications to Assistant Secretary, St. Peter's Hospital, Henrietta Street, London, W.C.2. (Phone: TEM. 9347). C 6758

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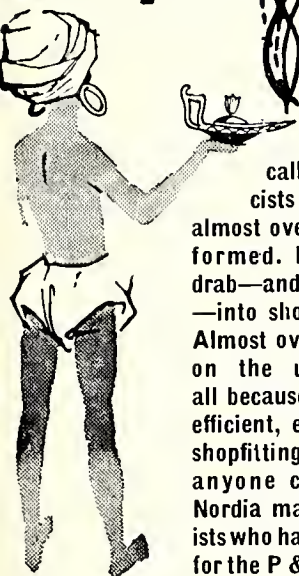
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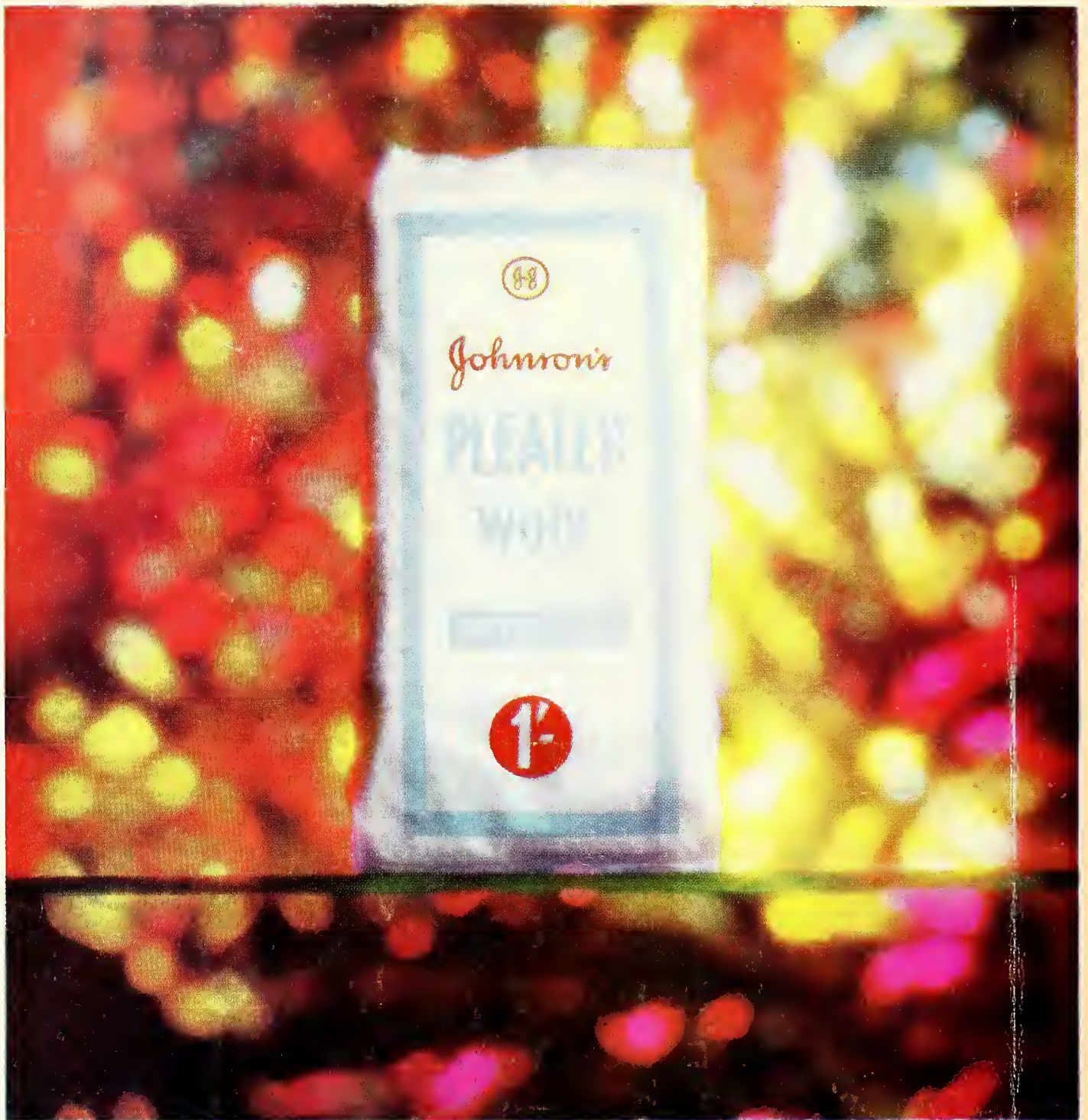
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